

**FLORENCE COPPER INC.**

1575 W. Hunt Highway, Florence, Arizona 85132 USA

florencecopper.com

October 28, 2021

U.S. Environmental Protection Agency, Region 9
Drinking Water Protection Section (WTR 4-2)
75 Hawthorne Street
San Francisco, California 94105

Attention: David Albright, Manager, Ground Water Office

Subject: Third Quarter 2021 Monitoring Report
Underground Injection Control (UIC) Permit No. R9UIC-AZ3-FY11-1

Dear Mr. Albright:

Florence Copper Inc. (Florence Copper) is regulated under UIC Permit No. R9UIC-AZ3-FY11-1, issued December 20, 2016, for a Production Test Facility (PTF). The facility began active operations on December 15, 2018. The rinsing demonstration for the PTF began on June 26, 2020. This report outlines the reporting requirements in accordance with Part II.G.2 of that Permit.

Background Information

The Florence Copper Project is an in-situ copper extraction facility subject to two related permits issued by the U.S. Environmental Protection Agency (USEPA) and the Arizona Department of Environmental Quality (ADEQ).

Aquifer Protection Permit (APP) Covering the 1997-98 BHP Pilot Facilities and Future Operations (Sitewide APP):

- ADEQ APP No. P-101704 (LTF 88973) dated April 30, 2021.

Prior to the amended permit issued on December 8, 2020, the Florence Copper Project was regulated under APP No. P-101704 (LTF 65804) dated October 13, 2017.

A test wellfield, a small leachate processing facility, and a double-lined evaporation pond were constructed as authorized by APP No. P-101704 in 1997. The Pilot Test Facility operated from October 31, 1997 to February 9, 1998. The test area was rinsed until September 1, 2004. Cessation of hydraulic control for testing was approved by both agencies and the wellfield has since remained inactive. Subsequently, no Sitewide permit related activities took place until the issuance of the amended permit on December 8, 2020. The authorized facilities and monitoring wells are identified on Figure 1. Reporting required by APP No. P-101704 is provided under separate cover; however, some information pertains to multiple permits and is reported accordingly.

Underground Injection Control (UIC) Permit Covering the Current Production Test Facility:

- USEPA UIC Permit No. R9UIC-AZ3-FY11-1 dated December 20, 2016.

This permit authorizes operation of the PTF and sets forth separate monitoring requirements to be applied at the PTF, which lies within the area covered by the APP. The UIC facilities and monitoring wells are identified on Figure 1. The configuration of the PTF wellfield is shown on Figure 2. The facility received authorization to proceed with pre-operational activities on July 13, 2017, and the PTF wellfield was completed and began operations on December 15, 2018. The rinsing activities for the PTF began on June 26, 2020. Solutions from the wellfield continued to be processed through the Solvent Extraction/Electrowinning (SX/EW) plant to produce copper in Q4 until October 29, 2020. Wellfield rinsing activities will continue in 2021.

This report documents monitoring activities required by the UIC permit during Q3 2021. Reporting for the APP is performed separately; however, some information pertains to multiple permits and is reported accordingly.

PTF Operations Quarterly Reporting

■ Part II.G.2.a – Map of Operational Status and Groundwater Contours

The monthly groundwater contour maps are included as Attachment 1. The operational status of the PTF facility was ACTIVE during Q3 2021.

■ Part II.G.2.b – Table and Graphs of Injected and Recovered Volumes

The daily cumulative injection and recovery volumes, and the daily percent recovery to injection volume values, are provided in tabular and graphical format in Attachment 2. Throughout Q3 2021, the extracted volume has consistently exceeded the injected volume by 10 percent or more, and the monthly average injection rate remained below the 240 gallons per minute limit.

■ Part II.G.2.c – Table and Graphs of the Well Head Measurements in the PTF

The daily average head measurement values for the observation wells and recovery wells are provided in tabular and graphical format in Attachment 3. The hydraulic gradient has been maintained with a greater than 1-foot differential as a daily average for all paired wells throughout Q3 2021.

■ Part II.G.2.d – Table and Graphs of Fluid Electrical Conductivity Measurements

Fluid electrical conductivity (EC) values are provided in tabular and graphical format in Attachment 4. As expected, fluid EC in the injection and observation wells were comparable during the monitoring period. Throughout the monitoring period the PTF wellfield was being rinsed, and no injection of in-situ copper recovery fluids took place.

■ Part II.G.2.e – Table and Graphs of Bulk Electrical Conductivity Measurements

Bulk EC values are provided in tabular and graphical format in Attachment 5. No bulk EC alert level (AL) exceedances occurred during Q3 2021.

■ Part II.G.2.f – Table and Graphs of Monitor Well Water Levels and Analytical Results

The Q3 2021 Compliance Monitoring Report is provided in Attachment 6 and presents the tabular results of groundwater elevations, analytical results, field parameters, and ALs and aquifer quality limits for wells regulated under the UIC permit and APP. The Compliance Monitoring Report also provides a narrative summary of the Q3 2021 monitoring activities, a discussion of exceedances, and graphical presentation of monitoring results for a select set of parameters since the inception of monitoring.

- **Part II.G.2.g – Results of Monthly Lixiviant Organic Analysis**

The analytical results for monthly lixiviant organic analysis are provided in tabular format in Attachment 7. The monthly organic concentrations were below the AL throughout Q3 2021.

- **Part II.G.2.h – Results of Monitoring Required if Injection Fluid is Modified**

During Q3 2021, the rinsing activities continued in the PTF. No modifications were made to the injection fluid composition during this monitoring period. Routine monthly analysis of the raffinate was completed during Q3 2021 and will continue during the rinsing demonstration.

- **Part II.G.2.i – Results of Mechanical Integrity Testing**

Temperature logging of multi-level sampling wells WB-01, WB-02, WB-03, and WB-04 was conducted during Q3 2021 to demonstrate mechanical integrity. A summary of results is provided in Attachment 8. Temperature logs in each of the four multi-level sampling wells showed no anomalies that would indicate there is flow behind the well casings. A report discussing the temperature logging of the wells has been provided to USEPA under separate cover.

- **Part II.G.2.j – Results of Annular Conductivity Device (ACD) Monitoring**

The results of the Q3 2021 well bore annular EC monitoring are provided in Attachment 9. Annular EC readings have remained approximately constant or increased slightly in 8 of the 11 wells since monitoring began in Q3 2018. Annular EC has decreased in wells WB-04, O-04, and O-06 during that same time. The results of the monitoring indicate the absence of injected fluid at the ACD locations. No ALs have been exceeded.

- **Part II.G.2.k – Summary of Plugging and Abandonment Activity**

On July 27, 2021, Well M5-S was abandoned. Documentation related to the abandonment is provided in Attachment 10. Well M5-S was an old sulfide well and was located outside of the Area of Review. It was not required to be monitored under this permit.

- **Part II.G.2.l – Summary of Closure Operations**

The SX/EW plant ceased operation on October 29, 2020. Wellfield rinsing that began in 2020 has continued through Q3 2021. No closure activities were initiated in this monitoring period.

- **Part II.G.2.m – Table of Monthly Casing Annulus and Injection Pressures**

Monthly maximum, minimum, and average injection pressures are provided in Attachment 11. There were no exceedances of the injection pressure limit during Q3 2021.

- **Part II.G.2 – Analytical Results for Monthly Treated Water Samples**

Monthly analytical results for samples of the treated water are provided in Attachment 12.

- **Appendix H – Migratory Bird Landings and Mortality**

Daily inspection of the Process Solution Impoundment was conducted to record any migratory bird landings and/or identify any migratory bird mortality. As summarized in Attachment 13, no bird mortalities were observed during Q3 2021.

Please call (520) 316-3710 with any questions regarding the content of this document.

Sincerely,
Florence Copper Inc.

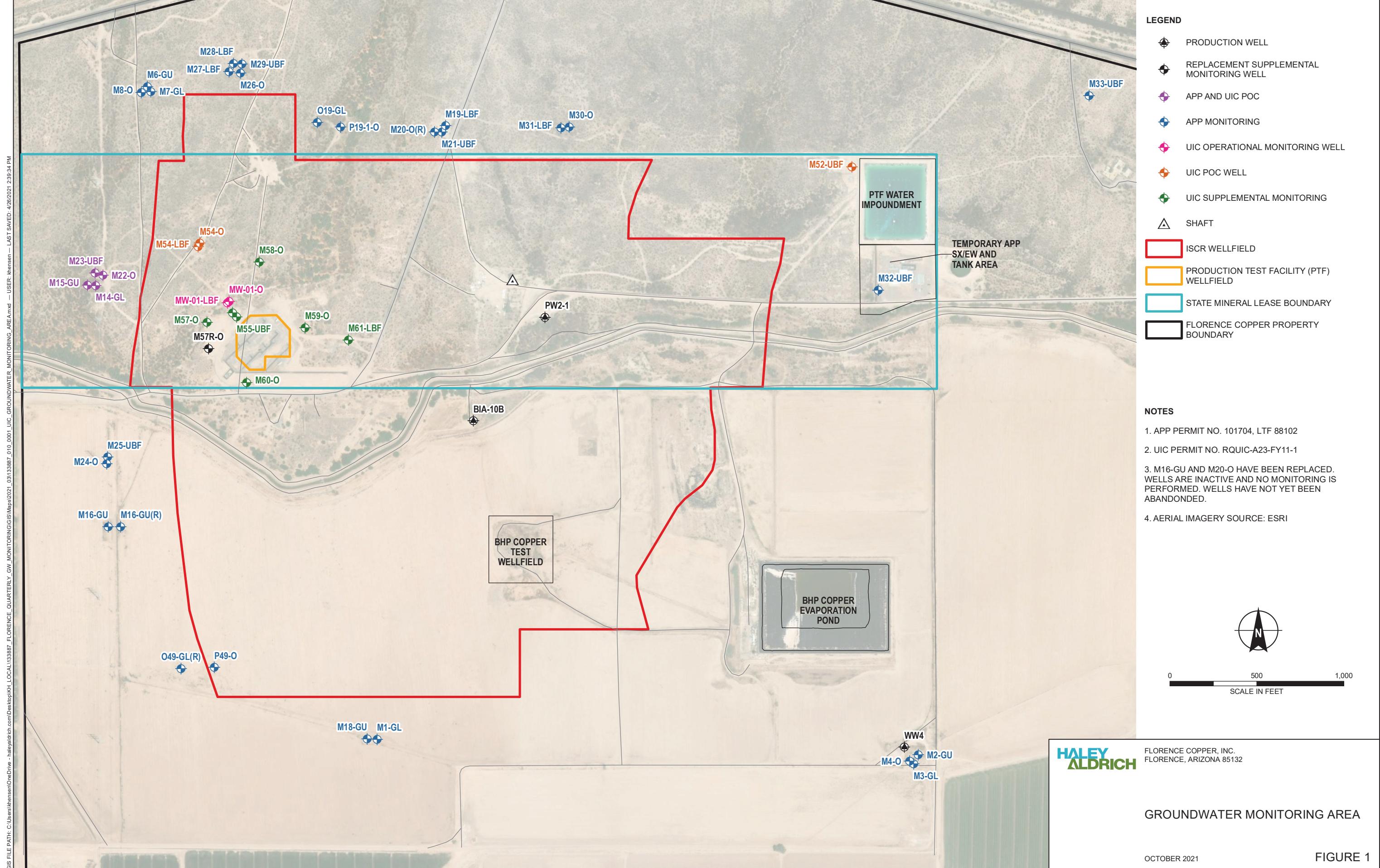


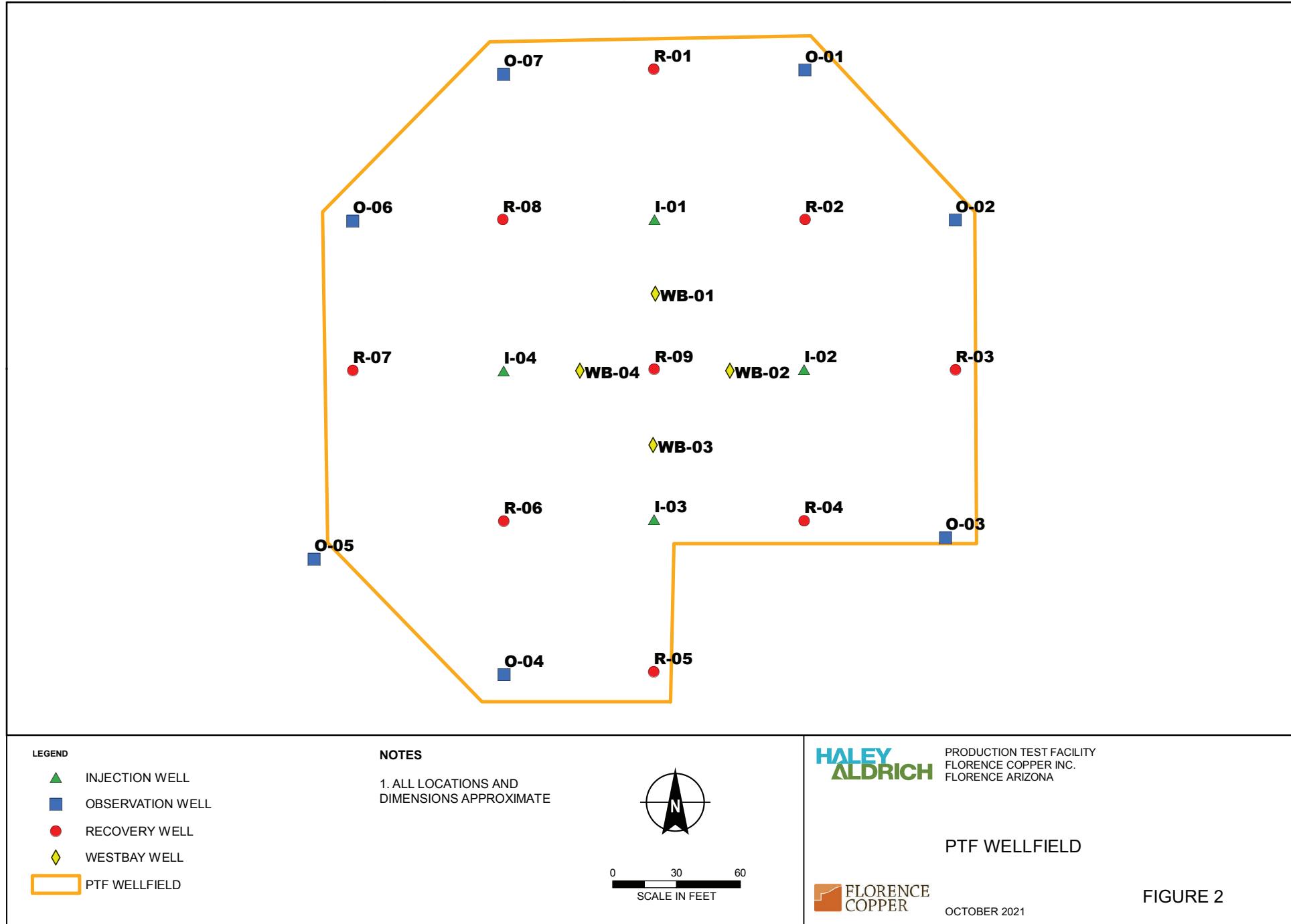
Brent Berg
General Manager

Enclosures:

- Figure 1 – Groundwater Monitoring Area
- Figure 2 – PTF Wellfield
- Attachment 1 – Map of Operational Status and Groundwater Contours
- Attachment 2 – Table and Graphs of Injected and Recovered Volumes
- Attachment 3 – Table and Graphs of the Well Head Measurements in the Production Test Facility
- Attachment 4 – Table and Graphs of Fluid Electrical Conductivity Measurements
- Attachment 5 – Table and Graphs of Bulk Electrical Conductivity Measurements
- Attachment 6 – Table and Graphs of Monitor Well Water Levels and Analytical Results
- Attachment 7 – Results of Monthly Lixiviant Organic Analysis
- Attachment 8 – Results of Mechanical Integrity Testing
- Attachment 9 – Results of Annular Conductivity Device Monitoring
- Attachment 10 – Summary of Plugging and Abandonment
- Attachment 11 – Table of Monthly Casing Annulus and Injection Pressures
- Attachment 12 – Results for Monthly Treated Water Samples
- Attachment 13 – Migratory Bird Landings

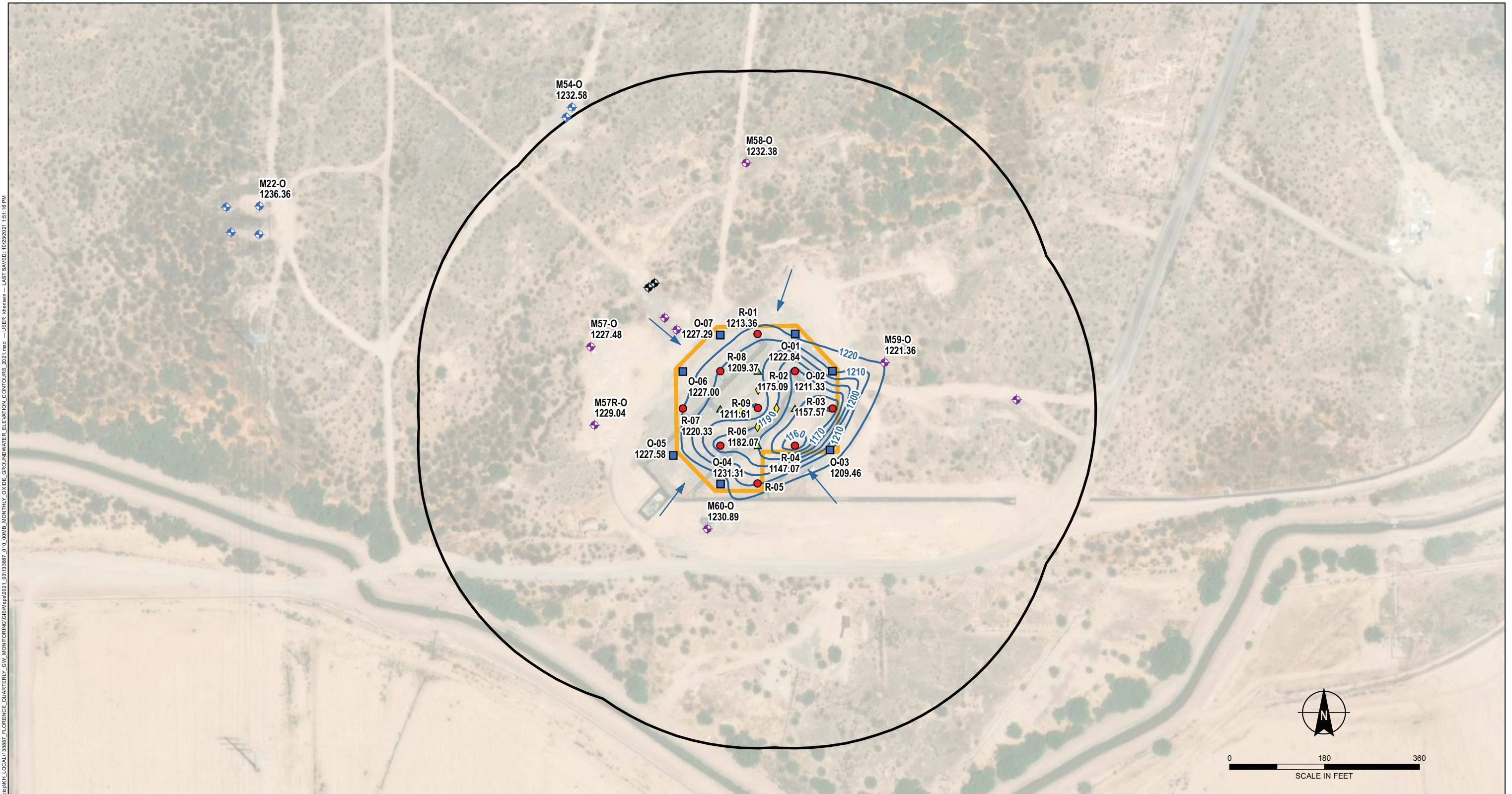
FIGURES





ATTACHMENT 1

Map of Operational Status and Groundwater Contours



LEGEND

- OBSERVATION WELL
 - ▲ INJECTION WELL
 - RECOVERY WELL
 - ◆ WESTBAY WELL
 - ◆ POINT OF COMPLIANCE (POC) WELL
 - ◆ SUPPLEMENTAL MONITORING WELL
 - OPERATIONAL MONITORING WELL
 - GROUNDWATER ELEVATION CONTOUR
10-FT INTERVAL
 - GROUNDWATER FLOW DIRECTION
 - POLLUTANT MANAGEMENT AREA

PRODUCTION TEST FACILITY (PTF)
WELL FIELD

WELL ID
M60
1230
GROUNDWATER
ELEVATION

NOTE

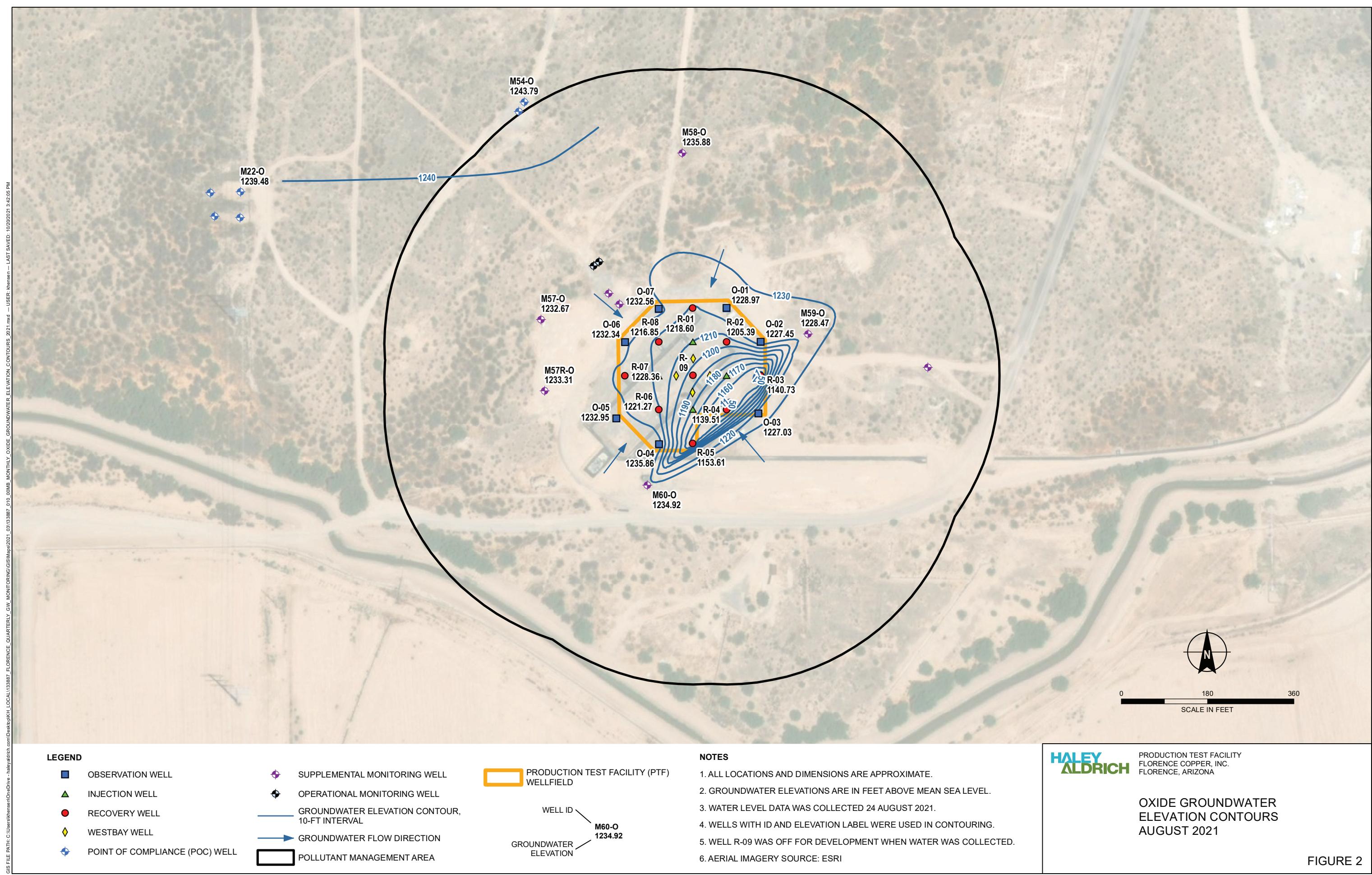
1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
 2. GROUNDWATER ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL.
 3. WATER LEVEL DATA WAS COLLECTED 16 JULY 2021.
 4. WELLS WITH ID AND ELEVATION LABEL WERE USED IN CONTOURING.
 5. WELL R-05 WAS OFF FOR DEVELOPMENT WHEN WATER WAS COLLECTED.
 6. WELLS O-02 AND O-03 WERE BEING PUMPED AT 10-GALLONS PER MINUTE.
 7. AERIAL IMAGERY SOURCE: ESRI

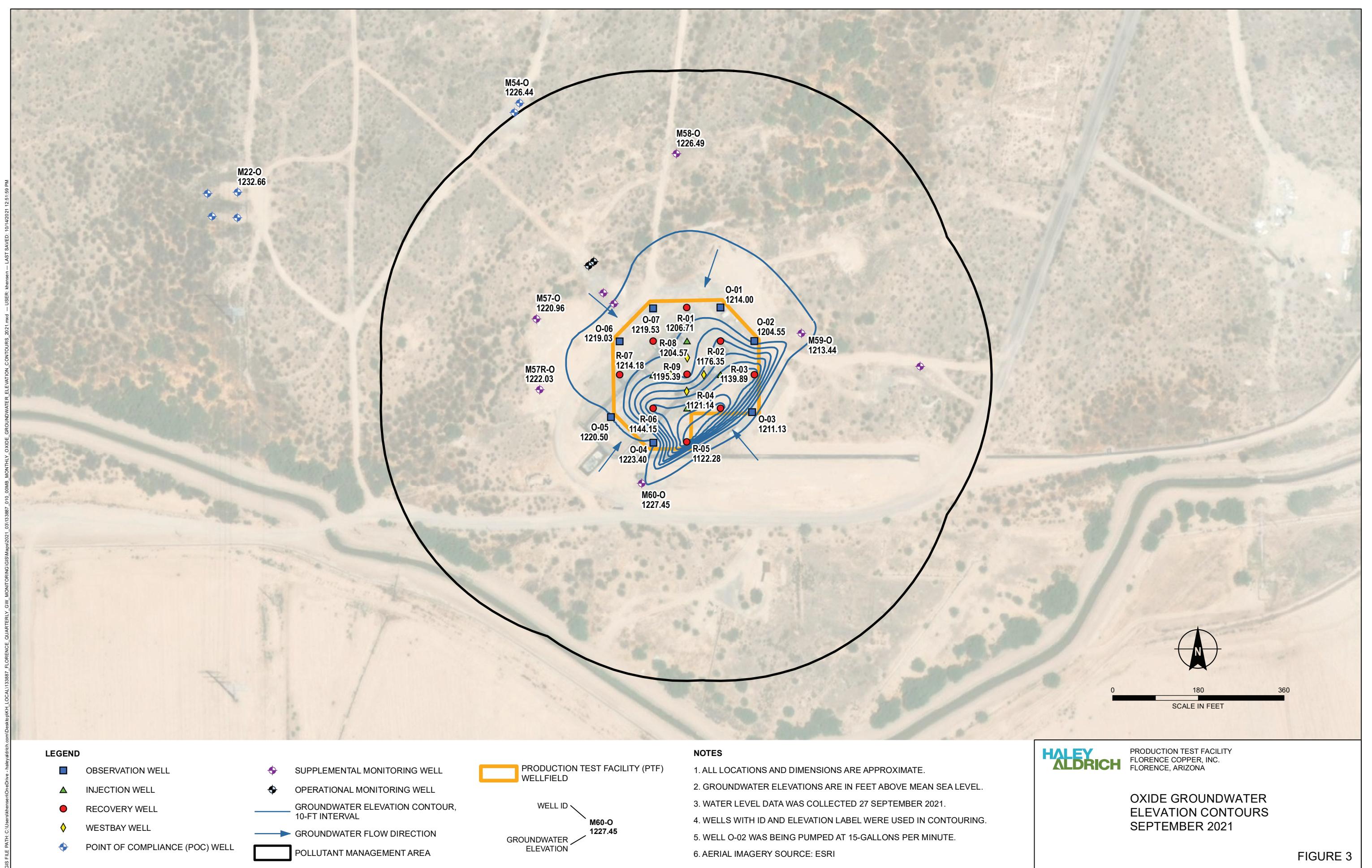
HALEY ALDRICH

**PRODUCTION TEST FACILITY
FLORENCE COPPER, INC.
FLORENCE, ARIZONA**

OXIDE GROUNDWATER ELEVATION CONTOURS JULY 2021

FIGURE 7





ATTACHMENT 2

Table and Graphs of Injected and Recovered Volumes

VOLUMES WITH PERCENT RECOVERY

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 1. July 2021 Daily Injection and Recovery Volumes

Date	Daily Injection Volume (gallons)	Daily Recovery Volume (gallons)	Ratio Recovery/Injection	% Recovery
7/1/2021	203,200	229,300	1.13	113
7/2/2021	205,100	230,000	1.12	112
7/3/2021	204,200	230,200	1.13	113
7/4/2021	204,500	230,200	1.13	113
7/5/2021	203,600	229,900	1.13	113
7/6/2021	194,000	217,000	1.12	112
7/7/2021	187,600	209,300	1.12	112
7/8/2021	187,700	210,000	1.12	112
7/9/2021	188,400	232,600	1.23	123
7/10/2021	164,600	199,100	1.21	121
7/11/2021	188,500	241,800	1.28	128
7/12/2021	188,900	258,400	1.37	137
7/13/2021	180,700	246,300	1.36	136
7/14/2021	146,700	232,300	1.58	158
7/15/2021	158,200	254,500	1.61	161
7/16/2021	159,200	256,000	1.61	161
7/17/2021	159,300	256,300	1.61	161
7/18/2021	159,500	256,300	1.61	161
7/19/2021	159,300	256,000	1.61	161
7/20/2021	159,000	256,300	1.61	161
7/21/2021	159,000	257,200	1.62	162
7/22/2021	136,800	217,900	1.59	159
7/23/2021	158,900	255,700	1.61	161
7/24/2021	158,600	256,100	1.61	161
7/25/2021	160,000	255,500	1.60	160
7/26/2021	159,200	256,200	1.61	161
7/27/2021	159,300	256,700	1.61	161
7/28/2021	159,300	262,200	1.65	165
7/29/2021	157,700	262,800	1.67	167
7/30/2021	157,100	262,300	1.67	167
7/31/2021	157,900	262,900	1.66	166
JUL Averages	171,806	243,139	1.44	144

JUL Averages	Monthly Average Injection Volume (GPM)	Monthly Average Recovery Volume (GPM)
	119	169

Notes:

% = percent

GPM = gallons per minute

VOLUMES WITH PERCENT RECOVERY

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 2. August 2021 Daily Injection and Recovery Volumes

Date	Daily Injection Volume (gallons)	Daily Recovery Volume (gallons)	Ratio Recovery/Injection	% Recovery
8/1/2021	157,300	261,700	1.66	166
8/2/2021	157,200	261,900	1.67	167
8/3/2021	156,700	261,900	1.67	167
8/4/2021	156,900	262,200	1.67	167
8/5/2021	157,100	261,600	1.67	167
8/6/2021	157,700	297,400	1.89	189
8/7/2021	142,900	267,800	1.87	187
8/8/2021	157,700	296,600	1.88	188
8/9/2021	158,300	292,300	1.85	185
8/10/2021	158,000	290,400	1.84	184
8/11/2021	158,600	277,900	1.75	175
8/12/2021	158,700	280,100	1.76	176
8/13/2021	159,700	302,800	1.90	190
8/14/2021	157,500	297,700	1.89	189
8/15/2021	156,900	297,900	1.90	190
8/16/2021	157,500	296,900	1.89	189
8/17/2021	157,200	223,400	1.42	142
8/18/2021	156,300	228,000	1.46	146
8/19/2021	155,200	233,900	1.51	151
8/20/2021	72,200	147,300	2.04	204
8/21/2021	72,200	146,400	2.03	203
8/22/2021	72,900	146,000	2.00	200
8/23/2021	71,500	148,100	2.07	207
8/24/2021	72,100	146,600	2.03	203
8/25/2021	65,300	140,020	2.14	214
8/26/2021	41,100	118,700	2.89	289
8/27/2021	72,100	144,250	2.00	200
8/28/2021	73,000	144,700	1.98	198
8/29/2021	72,800	144,730	1.99	199
8/30/2021	73,500	144,680	1.97	197
8/31/2021	73,300	145,160	1.98	198
AUG Averages	122,884	222,872	1.88	188

AUG Averages	Monthly Average Injection Volume (GPM)	Monthly Average Recovery Volume (GPM)
	85	155

Notes:*Injection and recovery volumes lowered in August and September during BHP Pond liner repairs.**% = percent**GPM = gallons per minute*

VOLUMES WITH PERCENT RECOVERY

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 3. September 2021 Daily Injection and Recovery Volumes

Date	Daily Injection Volume (gallons)	Daily Recovery Volume (gallons)	Ratio Recovery/Injection	% Recovery
9/1/2021	72,400	146,460	2.02	202
9/2/2021	73,200	146,740	2.00	200
9/3/2021	74,000	146,370	1.98	198
9/4/2021	73,700	146,900	1.99	199
9/5/2021	73,800	146,580	1.99	199
9/6/2021	73,200	147,150	2.01	201
9/7/2021	73,900	145,700	1.97	197
9/8/2021	74,000	147,000	1.99	199
9/9/2021	73,800	146,400	1.98	198
9/10/2021	73,100	146,660	2.01	201
9/11/2021	72,200	146,660	2.03	203
9/12/2021	72,100	146,460	2.03	203
9/13/2021	72,400	145,900	2.02	202
9/14/2021	72,300	159,700	2.21	221
9/15/2021	83,000	145,970	1.76	176
9/16/2021	87,500	146,660	1.68	168
9/17/2021	86,200	145,980	1.69	169
9/18/2021	85,200	149,610	1.76	176
9/19/2021	85,700	146,510	1.71	171
9/20/2021	82,700	146,300	1.77	177
9/21/2021	81,900	141,500	1.73	173
9/22/2021	80,500	146,800	1.82	182
9/23/2021	122,800	252,000	2.05	205
9/24/2021	144,800	337,900	2.33	233
9/25/2021	145,600	338,300	2.32	232
9/26/2021	147,200	337,600	2.29	229
9/27/2021	143,200	337,300	2.36	236
9/28/2021	143,500	321,000	2.24	224
9/29/2021	144,100	281,000	1.95	195
9/30/2021	144,000	293,700	2.04	204
SEP Averages	94,400	191,094	1.99	199

SEP Averages	Monthly Average Injection Volume (GPM)	Monthly Average Recovery Volume (GPM)
	66	133

Notes:*Injection and recovery volumes lowered in August and September during BHP Pond liner repairs.**% = percent**GPM = gallons per minute*

Figure 1. Injection vs. Recovery Volumes - July

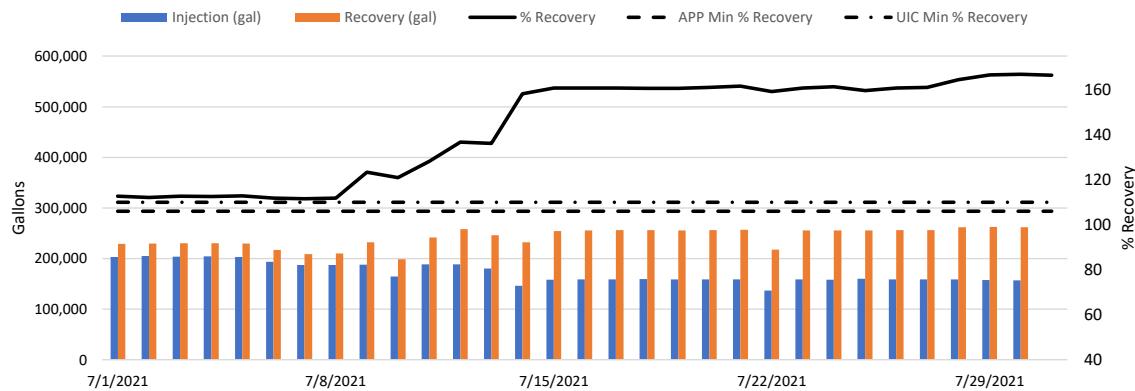


Figure 2. Injection vs. Recovery Volumes - August

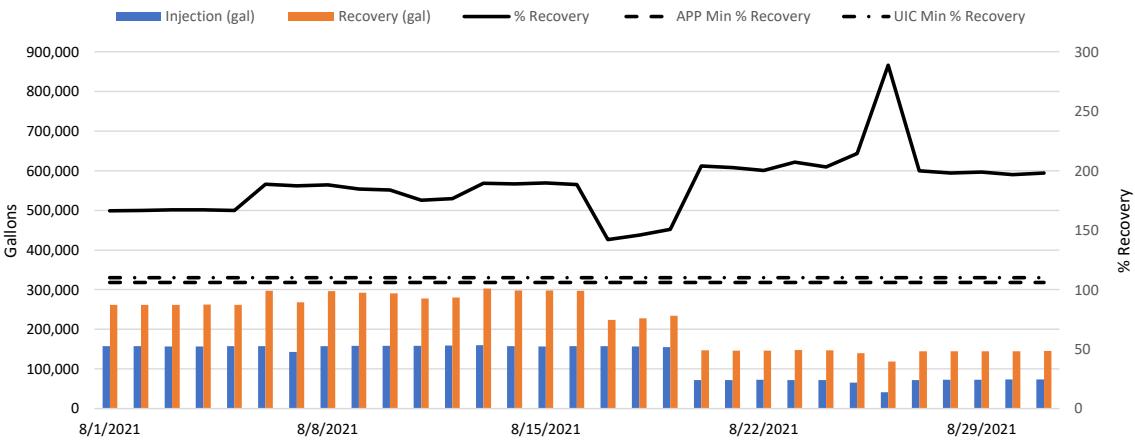
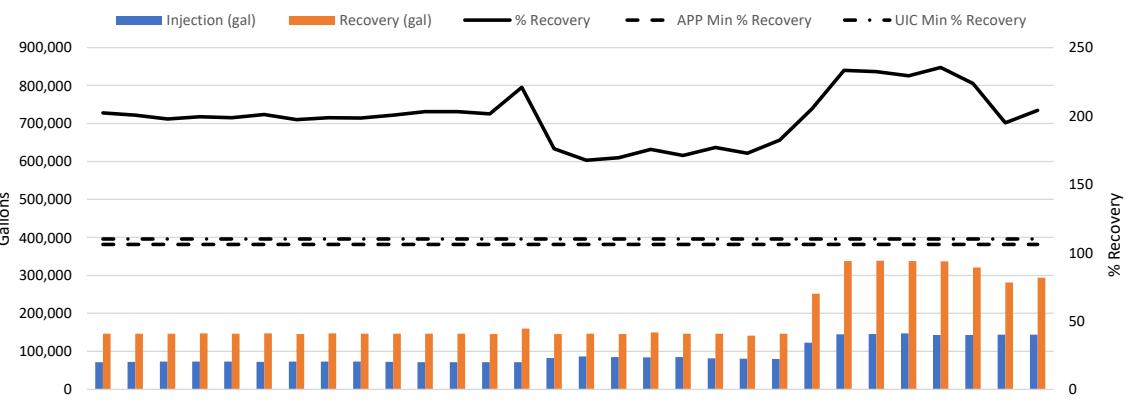


Figure 3. Injection vs. Recovery Volumes - September



Note:

Injection and recovery volumes lowered in August and September during BHP Pond liner repairs. All recovery rates are within acceptable limits.

ATTACHMENT 3

Table and Graphs of the Well Head Measurements in the Production Test Facility

OBSERVATION AND RECOVERY WELLS

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 1. July 2021 Daily Average Water Level Elevations

Date	R-01	O-01	O-07	R-02	O-01	O-02	R-03	O-02	O-03	R-04	O-03	R-05	O-04	R-06	O-04	O-05	R-07	O-05	O-06	R-08	O-06	O-07	R-09
7/1/2021	1219.58	1229.88	1231.75	1188.66	1229.88	1221.33	1161.65	1221.33	1223.74	1153.11	1223.74	1113.15	1232.31	1148.81	1232.31	1230.92	NA	1230.92	1231.50	1209.87	1231.50	1231.75	1218.92
7/2/2021	1216.54	1230.81	1231.83	1190.19	1230.81	1221.80	1161.97	1221.80	1224.40	1154.58	1224.40	1123.11	1232.61	1150.47	1232.61	1231.14	NA	1231.14	1232.01	1210.87	1232.01	1231.83	1219.14
7/3/2021	1215.82	1231.34	1231.94	1193.01	1231.34	1222.35	1164.17	1222.35	1225.53	1156.19	1225.53	1133.81	1233.31	1152.56	1233.31	1231.89	NA	1231.89	1232.64	1212.22	1232.64	1231.94	1220.50
7/4/2021	1217.65	1233.20	1233.74	1194.91	1233.20	1224.27	1164.87	1224.27	1227.78	1156.19	1227.78	1135.49	1235.63	1154.45	1235.63	1233.94	NA	1233.94	1234.57	1213.94	1234.57	1233.74	1222.53
7/5/2021	1219.47	1235.04	1235.45	1197.05	1235.04	1226.21	1165.04	1226.21	1229.72	1156.32	1229.72	1137.26	1237.62	1156.15	1237.62	1235.83	NA	1235.83	1236.37	1215.72	1236.37	1235.45	1224.35
7/6/2021	1221.55	1236.10	1236.53	1202.32	1236.10	1227.50	1166.94	1227.50	1231.64	1160.00	1231.64	1138.76	1239.26	1207.11	1239.26	1237.13	1234.08	1237.13	1237.11	1219.64	1237.11	1234.08	1225.12
7/7/2021	1224.16	1238.12	1238.35	1208.91	1238.12	1229.85	1169.14	1229.85	1234.31	1163.06	1234.31	1142.27	1241.44	NA	1241.44	1239.03	1234.21	1239.03	1238.63	1223.24	1238.63	1238.35	1226.86
7/8/2021	1225.06	1238.92	1239.26	1209.25	1238.92	1230.67	1168.79	1230.67	1235.20	1162.62	1235.20	1143.95	1242.54	NA	1242.54	1240.00	1233.31	1240.00	1239.55	1224.12	1239.55	1239.26	1227.52
7/9/2021	1224.96	1238.54	1239.00	1210.26	1238.54	1230.86	1168.00	1230.86	1227.54	1162.62	1227.54	1142.25	1242.01	1180.41	1242.01	1239.16	1232.37	1239.16	1239.01	1223.75	1239.01	1239.00	1226.99
7/10/2021	1226.03	1238.69	1239.25	1216.93	1238.69	1232.18	1171.44	1232.18	1226.80	1167.49	1226.80	1159.36	1241.99	1192.17	1241.99	1239.09	1233.58	1239.09	1239.23	1226.54	1239.23	1239.25	1231.63
7/11/2021	1225.42	1238.90	1239.30	1212.25	1238.90	1231.98	1169.79	1231.98	1224.98	1162.80	1224.98	1143.89	1242.24	1186.56	1242.24	1239.18	1232.50	1239.18	1239.24	1224.32	1239.24	1239.30	1227.87
7/12/2021	1222.82	1235.51	1237.14	1191.33	1235.51	1226.08	1162.71	1226.08	1222.29	1152.02	1222.29	NA	1241.49	1158.46	1241.49	1237.43	1230.33	1237.43	1237.05	1215.76	1237.05	1237.14	1224.71
7/13/2021	1222.40	1234.33	1236.66	1189.75	1234.33	1224.54	1159.80	1224.54	1220.97	1151.83	1220.97	NA	1241.08	1188.07	1241.08	1237.28	1230.51	1237.28	1236.79	1221.61	1236.79	1236.66	1225.09
7/14/2021	1220.23	1231.28	1234.26	1189.04	1231.28	1221.99	1161.16	1221.99	1218.41	1153.62	1218.41	NA	1238.23	1192.67	1238.23	1234.70	1228.27	1234.70	1234.20	1220.43	1234.20	1234.26	1221.89
7/15/2021	1216.35	1227.17	1230.78	1179.51	1227.17	1216.70	1157.99	1216.70	1213.39	1148.12	1213.39	NA	1234.76	1185.75	1234.76	1231.03	1224.00	1231.03	1230.55	1215.39	1230.55	1230.78	1215.82
7/16/2021	1213.36	1222.84	1227.29	1175.09	1222.84	1211.33	1157.57	1211.33	1209.46	1147.07	1209.46	NA	1231.31	1182.07	1231.31	1227.58	1220.33	1227.58	1227.00	1209.37	1227.00	1227.29	1211.61
7/17/2021	1210.75	1220.61	1225.26	1172.79	1220.61	1209.01	1157.67	1209.01	1207.83	1146.56	1207.83	NA	1229.46	1176.70	1229.46	1225.58	1218.47	1225.58	1225.01	1207.23	1225.01	1225.26	1209.47
7/18/2021	1210.31	1220.29	1224.72	1172.37	1220.29	1209.22	1157.61	1209.22	1207.57	1146.27	1207.57	NA	1228.56	1166.02	1228.56	1224.68	1217.70	1224.68	1224.30	1206.54	1224.30	1224.72	1209.12
7/19/2021	1210.19	1220.23	1224.50	1172.26	1220.23	1209.82	1157.36	1209.82	1207.14	1146.02	1207.14	NA	1228.16	1165.67	1228.16	1224.28	1217.32	1224.28	1223.96	1206.18	1223.96	1224.50	1208.68
7/20/2021	1210.17	1220.19	1224.49	1172.35	1220.19	1210.09	1156.85	1210.09	1207.42	1145.96	1207.42	NA	1228.14	1165.79	1228.14	1224.26	1217.30	1224.26	1223.95	1206.07	1223.95	1224.49	1208.70
7/21/2021	1209.02	1218.65	1223.34	1180.10	1218.65	1207.41	1156.67	1207.41	1206.52	1152.00	1206.52	1156.48	1227.46	1165.19	1227.46	1223.52	1216.61	1223.52	1223.18	1206.07	1223.18	1223.34	1207.69
7/22/2021	1211.61	1221.36	1225.15	1198.06	1221.36	1211.85	1160.84	1211.85	1209.99	1162.54	1209.99	1168.45	1228.36	1175.53	1228.36	1224.93	1219.35	1224.93	1224.89	1211.73	1224.89	1225.15	1213.17
7/23/2021	1211.60	1221.70	1226.27	1192.87	1221.70	1210.67	1157.87	1210.67	1209.44	1159.20	1209.44	1149.50	1230.50	1168.93	1230.50	1226.49	1219.59	1226.49	1226.02	1210.73	1226.02	1226.27	1210.75
7/24/2021	1213.15	1223.03	1227.74	1192.69	1223.03	1211.84	1157.96	1211.84	1210.64	1159.19	1210.64	1147.56	1232.34	1170.50	1232.34	1228.16	1221.17	1228.16	1227				

Q3 2021 HYDRAULIC GRADIENT, DAILY AVERAGE WATER LEVEL ELEVATIONS

OBSERVATION AND RECOVERY WELLS

FLORENCE COPPER INC.

FLORENCE, ARIZONA

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Table 2. August 2021 Daily Average Water Level Elevations

Date	R-01	O-01	O-07	R-02	O-01	O-02	R-03	O-02	O-03	R-04	O-03	R-05	O-04	R-06	O-04	O-05	R-07	O-05	O-06	R-08	O-06	O-07	R-09
8/1/2021	1212.16	1221.27	1226.35	1175.26	1221.27	1211.35	1162.77	1211.35	1216.47	1159.54	1216.47	1135.65	1231.13	1159.15	1231.13	1226.64	1219.70	1226.64	1226.05	1210.50	1226.05	1226.35	1207.13
8/2/2021	1209.78	1220.26	1226.00	1150.84	1220.26	1210.27	1162.44	1210.27	1216.94	1159.13	1216.94	1129.19	1230.68	1156.96	1230.68	1226.37	1219.35	1226.37	1226.01	1209.98	1226.01	1226.00	1206.84
8/3/2021	1211.44	1221.68	1226.55	1171.48	1221.68	1212.30	1162.44	1212.30	1213.80	1159.05	1213.80	1136.32	1230.66	1162.76	1230.66	1226.63	1219.98	1226.63	1226.38	NA	1226.38	1226.55	1199.62
8/4/2021	1211.18	1221.82	1226.32	1177.65	1221.82	1212.67	1161.92	1212.67	1210.62	1158.95	1210.62	1151.65	1230.36	1170.50	1230.36	1226.48	1219.66	1226.48	1226.10	NA	1226.10	1226.32	1199.02
8/5/2021	1211.59	1220.77	1226.06	1182.35	1220.77	1210.79	1162.34	1210.79	1209.94	1158.87	1209.94	1148.84	1231.08	1168.61	1231.08	1226.64	1219.77	1226.64	1225.88	NA	1225.88	1226.06	1195.04
8/6/2021	1212.46	1220.38	1226.71	1178.64	1220.38	1210.05	1160.77	1210.05	1210.60	1149.18	1210.60	1120.66	1232.27	1150.67	1232.27	1227.40	1220.56	1227.40	1226.62	NA	1226.62	1226.71	1188.61
8/7/2021	1213.77	1221.17	1227.79	1184.32	1221.17	1211.19	1162.42	1211.19	1208.84	1152.41	1208.84	1131.39	1233.58	1158.99	1233.58	1228.78	1222.47	1228.78	1227.88	NA	1227.88	1227.79	1194.59
8/8/2021	1212.46	1219.99	1227.08	1179.44	1219.99	1209.13	1160.48	1209.13	1210.61	1148.80	1210.61	1120.59	1233.30	1152.85	1233.30	1228.14	1221.15	1228.14	1227.20	NA	1227.20	1227.08	1189.55
8/9/2021	1212.66	1220.99	1227.40	1180.56	1220.99	1211.13	1160.71	1211.13	1210.07	1149.48	1210.07	1120.74	1233.67	1153.47	1233.67	1228.51	1221.43	1228.51	1227.40	NA	1227.40	1227.40	1190.74
8/10/2021	1212.79	1219.86	1221.44	1179.30	1219.86	1209.05	1160.54	1209.05	1208.89	1148.94	1208.89	1119.38	1233.67	1153.65	1233.67	1228.46	1221.44	1228.46	1227.44	NA	1227.44	1221.44	1189.55
8/11/2021	1214.04	1221.42	1228.59	1180.98	1221.42	1210.51	1160.85	1210.51	1210.54	1149.28	1210.54	1146.50	1235.06	1172.55	1235.06	1230.06	1223.06	1230.06	1228.93	NA	1228.93	1228.59	1194.23
8/12/2021	1214.41	1221.76	1228.86	1181.44	1221.76	1211.19	1160.86	1211.19	1209.42	1149.40	1209.42	1145.79	1235.36	1172.14	1235.36	1230.38	1223.40	1230.38	1229.28	NA	1229.28	1228.86	1194.33
8/13/2021	1211.02	1217.17	1225.28	1179.10	1217.17	1205.77	1160.32	1205.77	1205.27	1149.12	1205.27	1125.91	1233.14	1157.43	1233.14	1227.31	1220.13	1227.31	1225.73	1206.42	1225.73	1225.28	1187.10
8/14/2021	1209.77	1214.32	1223.09	1181.99	1214.32	1202.29	1157.65	1202.29	1203.11	1149.68	1203.11	1138.06	1232.11	1165.37	1232.11	1225.79	1218.25	1225.79	1223.69	1207.20	1223.69	1223.09	1184.69
8/15/2021	1209.83	1214.27	1223.00	1181.38	1214.27	1202.39	1158.89	1202.39	1203.31	1149.69	1203.31	1138.05	1232.19	1165.39	1232.19	1225.81	1218.18	1225.81	1223.67	1206.68	1223.67	1223.00	1184.67
8/16/2021	1210.64	1215.65	1224.50	1159.50	1215.65	1203.09	1159.48	1203.09	1203.09	1140.58	1203.09	1076.00	1232.09	1121.11	1232.09	1226.02	1218.91	1226.02	1224.90	1201.76	1224.90	1224.50	1185.11
8/17/2021	1218.16	1227.76	1233.31	1193.61	1227.76	1218.06	1165.53	1218.06	1220.52	1157.57	1220.52	1140.25	1238.33	1163.84	1238.33	1233.74	1226.90	1233.74	1233.29	1208.14	1233.29	1233.31	NA
8/18/2021	1217.82	1227.50	1234.33	1197.96	1227.50	1217.01	1166.24	1217.01	1221.82	1157.87	1221.82	1143.88	1239.75	1168.07	1239.75	1235.36	1228.81	1235.36	1234.79	1214.30	1234.79	1234.33	NA
8/19/2021	1215.59	1225.48	1232.31	1194.00	1225.48	1215.00	1165.14	1215.00	1221.41	1155.97	1221.41	1137.17	1237.95	1162.98	1237.95	1233.45	1226.87	1233.45	1232.83	1214.70	1232.83	1232.31	NA
8/20/2021	1221.11	1231.87	1235.44	1207.60	1231.87	1230.89	1169.19	1230.89	1230.00	1164.25	1230.00	1157.40	1239.26	1224.58	1239.26	1236.08	1231.25	1236.08	1235.41	1214.70	1235.41	1235.44	NA
8/21/2021	1219.35	1232.02	1235.40	1206.32	1232.02	1230.39	1168.66	1230.39	1229.41	1162.42	1229.41	1154.95	1238.98	1224.40	1238.98	1235.94	1226.97	1235.94	1235.28	1220.47	1235.28	1235.40	NA
8/22/2021	1221.41	1232.03	1235.60	1208.23	1232.03	1230.94	1169.38	1230.94	1230.03	1164.02	1230.03	1156.98	1239.04	1224.53	1239.04	1236.05	1231.36	1236.05	1235.40	1220.71	1235.40	1235.60	NA
8/23/2021	1219.87	1231.02	1234.46	1206.59	1231.02	1230.44	1147.27	1230.44	1229.62	1141.44	1229.62	1156.66	1238.05	1223.39	1238.05	1234.95	1229.85	1234.95	1234.27	1219.53	1234.27	1234.46	NA
8/24/2021	1218.60	1228.97	1232.56	1205.39	1228.97	1227.45	1140.73	1227.45	1227.03	1139.51	1227.03	1153.61	1235.86	1221.27	1235.86	1232.95	1228.36	1232.95	1232.34				

Q3 2021 HYDRAULIC GRADIENT, DAILY AVERAGE WATER LEVEL ELEVATIONS

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OBSERVATION AND RECOVERY WELLS

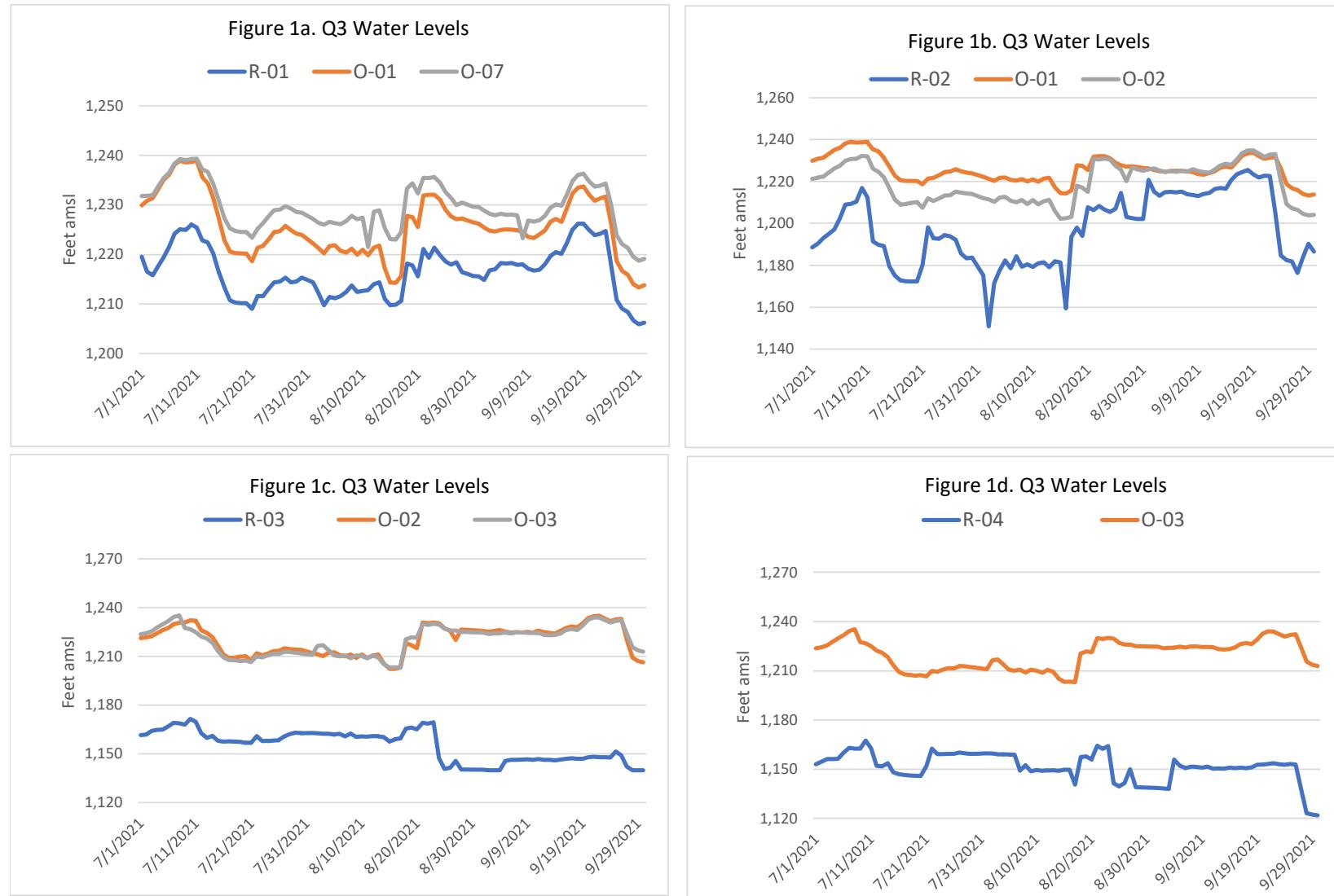
FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 3. September 2021 Daily Average Water Level Elevations

Date	R-01	O-01	O-07	R-02	O-01	O-02	R-03	O-02	O-03	R-04	O-03	R-05	O-04	R-06	O-04	O-05	R-07	O-05	O-06	R-08	O-06	O-07	R-09
9/1/2021	1216.79	1224.79	1228.17	1215.15	1224.79	1225.24	1145.70	1225.24	1224.69	1152.05	1224.69	1191.72	1231.58	1216.17	1231.58	1228.33	1223.81	1228.33	1227.58	1218.51	1227.58	1228.17	1211.31
9/2/2021	1217.04	1224.62	1227.85	1213.18	1224.62	1224.64	1146.36	1224.64	1224.19	1150.72	1224.19	1194.30	1231.28	1215.79	1231.28	1227.98	1223.45	1227.98	1227.19	1218.25	1227.19	1227.85	1210.60
9/3/2021	1218.31	1224.95	1228.17	1214.89	1224.95	1224.95	1146.32	1224.95	1224.84	1151.61	1224.84	1192.64	1231.32	1204.41	1231.32	1228.13	1224.74	1228.13	1227.53	1218.90	1227.53	1228.17	1211.21
9/4/2021	1218.20	1225.05	1227.99	1215.03	1225.05	1224.61	1146.50	1224.61	1224.80	1151.37	1224.80	1194.06	1231.26	1215.60	1231.26	1228.05	1223.69	1228.05	1227.30	1218.50	1227.30	1227.99	1211.14
9/5/2021	1218.29	1224.96	1228.04	1214.80	1224.96	1225.14	1146.65	1225.14	1224.49	1150.98	1224.49	1195.54	1231.39	1216.18	1231.39	1228.12	1223.72	1228.12	1227.35	1218.63	1227.35	1228.04	1211.21
9/6/2021	1217.94	1224.86	1227.85	1215.17	1224.86	1224.61	1146.29	1224.61	1224.53	1151.55	1224.53	1193.10	1231.20	1215.93	1231.20	1227.97	1223.55	1227.97	1227.16	1218.50	1227.16	1227.85	1211.02
9/7/2021	1218.02	1224.52	1223.26	1213.91	1224.52	1225.88	1146.81	1225.88	1224.36	1150.37	1224.36	1196.28	1230.82	1215.64	1230.82	1227.67	1223.26	1227.67	1226.85	1220.60	1226.85	1223.26	1210.85
9/8/2021	1217.14	1223.50	1226.82	1213.52	1223.50	1225.03	1146.42	1225.03	1223.27	1150.50	1223.27	1194.37	1229.98	1214.83	1229.98	1226.95	1222.51	1226.95	1226.11	1218.29	1226.11	1226.82	1209.83
9/9/2021	1216.75	1223.29	1226.58	1213.04	1223.29	1224.50	1146.42	1224.50	1223.02	1150.29	1223.02	1194.52	1224.50	1214.58	1224.50	1226.69	1222.27	1226.69	1225.86	1222.53	1225.86	1226.58	1209.63
9/10/2021	1216.92	1224.02	1226.85	1214.06	1224.02	1224.08	1146.06	1224.08	1223.29	1150.95	1223.29	1192.31	1228.50	1214.80	1228.50	1226.89	1222.51	1226.89	1226.10	1217.81	1226.10	1226.85	1210.22
9/11/2021	1218.05	1224.81	1227.75	1214.55	1224.81	1225.72	1146.56	1225.72	1224.17	1150.61	1224.17	1195.19	1229.95	1215.80	1229.95	1227.99	1223.54	1227.99	1227.07	1218.14	1227.07	1227.75	1211.24
9/12/2021	1219.67	1226.54	1229.42	1216.43	1226.54	1227.58	1146.92	1227.58	1226.22	1151.05	1226.22	1197.67	1232.04	1217.64	1232.04	1229.81	1225.34	1229.81	1228.83	1222.60	1228.83	1229.42	1212.96
9/13/2021	1220.47	1227.15	1230.08	1216.83	1227.15	1228.50	1147.30	1228.50	1226.91	1150.72	1226.91	1200.64	1232.96	1218.37	1232.96	1230.59	1226.10	1230.59	1229.55	1223.55	1229.55	1230.08	1213.57
9/14/2021	1220.09	1226.56	1229.82	1216.49	1226.56	1227.84	1146.93	1227.84	1226.28	1151.09	1226.28	1198.68	1233.00	1218.14	1233.00	1230.51	1225.97	1230.51	1229.38	1224.60	1229.38	1229.82	1212.98
9/15/2021	1222.24	1229.38	1232.15	1220.65	1229.38	1230.49	1146.96	1230.49	1229.01	1152.69	1229.01	1198.11	1235.02	1220.60	1235.02	1232.64	1228.28	1232.64	1231.64	1227.53	1231.64	1232.15	1216.08
9/16/2021	1224.96	1232.30	1234.85	1223.31	1232.30	1233.59	1147.94	1233.59	1232.69	1152.80	1232.69	1203.42	1237.78	1223.59	1237.78	1235.44	1231.02	1235.44	1234.40	1229.82	1234.40	1234.85	1219.64
9/17/2021	1226.18	1233.43	1236.03	1224.48	1233.43	1234.78	1148.33	1234.78	1234.01	1153.13	1234.01	1206.62	1239.15	1224.24	1239.15	1236.71	1232.28	1236.71	1235.65	1231.27	1235.65	1236.03	1220.93
9/18/2021	1226.23	1233.70	1236.28	1225.49	1233.70	1234.93	1147.89	1234.93	1233.96	1153.67	1233.96	1202.71	1239.24	1225.07	1239.24	1236.86	1232.46	1236.86	1235.84	1231.91	1235.84	1236.28	1221.04
9/19/2021	1224.95	1232.06	1234.78	1223.36	1232.06	1233.34	1147.95	1233.34	1232.34	1152.97	1232.34	1203.33	1237.61	1223.50	1237.61	1235.30	1230.94	1235.30	1234.32	1230.31	1234.32	1234.78	1219.46
9/20/2021	1223.89	1230.81	1233.66	1221.87	1230.81	1231.72	1147.83	1231.72	1230.94	1152.65	1230.94	1202.69	1236.63	1222.28	1236.63	1234.21	1229.81	1234.21	1233.16	1229.27	1233.16	1233.66	1218.09
9/21/2021	1224.14	1231.32	1233.89	1222.75	1231.32	1232.85	1151.44	1232.85	1231.87	1153.15	1231.87	1198.84	1237.00	1222.35	1237.00	1234.36	1229.90	1234.36	1233.29	1229.34	1233.29	1233.89	1218.34
9/22/2021	1224.69	1231.68	1234.30	1222.55	1231.68	1233.09	1149.11	1233.09	1232.29	1152.84	1232.29	1206.77	1238.11	1222.13	1238.11	1235.13	1230.62	1235.13	1233.81	1228.71	1233.81	1234.30	1218.53
9/23/2021	1217.84	1226.19	1229.98	1205.02	1226.19	1220.33	1142.13	1220.33	1224.16	1137.74	1224.16	1158.65	1234.54	1175.61	1234.54	1230.68	1225.16	1230.68	1229.44	1220.91	1229.44	1229.98	1209.40
9/24/2021	1210.88	1218.70	1223.87	1184.79	1218.70	1209.20	1139.91	1209.20	1215.67	1123.11	1215.6												

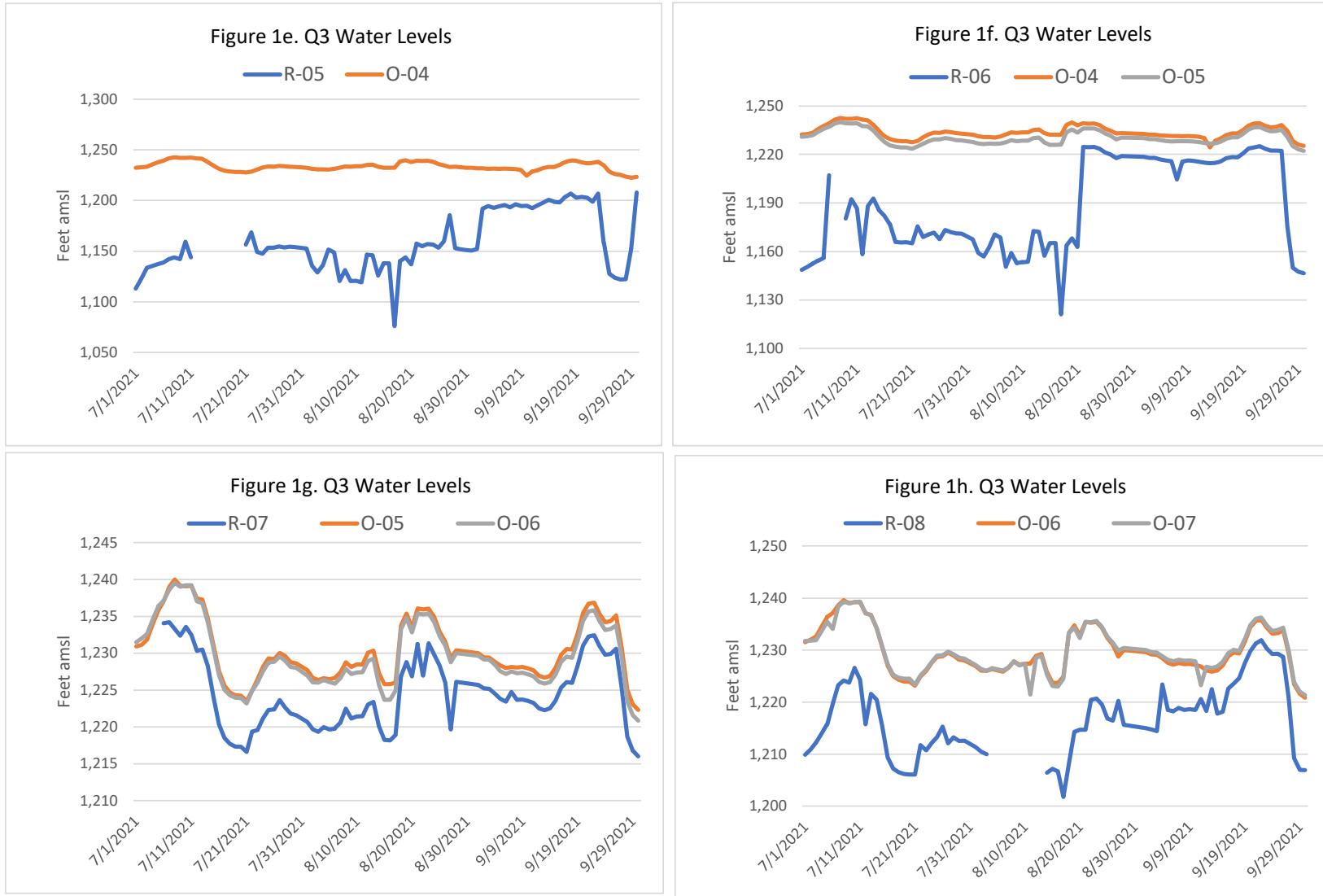
Hydraulic Gradient - Daily Average Water Level Elevations - Observation and Recovery Wells



Notes:

Refer to preceding Daily Average Water Level Elevations Tables (Tables 1 - 3) for details on missing data points.

Hydraulic Gradient - Daily Average Water Level Elevations - Observation and Recovery Wells



Notes:

Refer to preceding Daily Average Water Level Elevation Tables (Tables 1 - 3) for details on missing data points.

Q3 2021 DAILY HYDRAULIC GRADIENT FOR RECOVERY WELL PAIRINGS

FLORENCE COPPER INC.

FLORENCE, ARIZONA

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Table 4. July 2021 Daily Hydraulic Gradient for Recovery Well Pairings

Date	R-01		R-02		R-03		R-04	R-05	R-06		R-07		R-08		All Gradients > 1 foot?
	O-01	O-07	O-01	O-02	O-02	O-03	O-03	O-04	O-04	O-05	O-05	O-06	O-06	O-07	
7/1/2021	10.31	12.18	41.23	32.68	59.68	62.09	70.63	119.16	83.50	82.11	NA	NA	21.63	21.88	Yes
7/2/2021	14.27	15.29	40.62	31.61	59.83	62.43	69.82	109.50	82.14	80.67	NA	NA	21.14	20.96	Yes
7/3/2021	15.52	16.11	38.33	29.34	58.19	61.37	69.34	99.50	80.76	79.34	NA	NA	20.42	19.72	Yes
7/4/2021	15.56	16.09	38.29	29.35	59.40	62.91	71.59	100.14	81.18	79.49	NA	NA	20.64	19.80	Yes
7/5/2021	15.57	15.99	37.99	29.17	61.17	64.68	73.40	100.36	81.46	79.67	NA	NA	20.65	19.74	Yes
7/6/2021	14.55	14.98	33.78	25.18	60.55	64.69	71.64	100.50	32.15	30.01	3.05	3.03	17.47	14.44	Yes
7/7/2021	13.96	14.19	29.22	20.94	60.71	65.17	71.25	99.17	NA	NA	4.82	4.42	15.38	15.11	Yes
7/8/2021	13.86	14.19	29.67	21.42	61.89	66.41	72.58	98.59	NA	NA	6.69	6.24	15.42	15.14	Yes
7/9/2021	13.58	14.04	28.28	20.60	62.86	59.54	64.92	99.76	61.60	58.75	6.79	6.64	15.26	15.25	Yes
7/10/2021	12.66	13.22	21.76	15.25	60.74	55.36	59.31	82.63	49.82	46.92	5.51	5.65	12.69	12.71	Yes
7/11/2021	13.49	13.89	26.66	19.73	62.19	55.19	62.18	98.35	55.69	52.62	6.68	6.74	14.91	14.98	Yes
7/12/2021	12.69	14.32	44.19	34.76	63.37	59.58	70.27	NA	83.04	78.97	7.09	6.72	21.29	21.38	Yes
7/13/2021	11.93	14.26	44.58	34.79	64.74	61.17	69.14	NA	53.01	49.21	6.77	6.28	15.18	15.05	Yes
7/14/2021	11.05	14.03	42.24	32.95	60.82	57.25	64.80	NA	45.55	42.03	6.44	5.93	13.76	13.83	Yes
7/15/2021	10.82	14.43	47.66	37.19	58.71	55.40	65.27	NA	49.01	45.28	7.03	6.55	15.16	15.39	Yes
7/16/2021	9.48	13.93	47.75	36.24	53.76	51.89	62.39	NA	49.24	45.51	7.25	6.67	17.63	17.92	Yes
7/17/2021	9.86	14.51	47.82	36.22	51.34	50.16	61.28	NA	52.76	48.88	7.11	6.54	17.78	18.03	Yes
7/18/2021	9.98	14.41	47.92	36.85	51.61	49.96	61.30	NA	62.54	58.66	6.98	6.59	17.75	18.18	Yes
7/19/2021	10.05	14.32	47.97	37.56	52.47	49.78	61.12	NA	62.48	58.61	6.96	6.64	17.79	18.33	Yes
7/20/2021	10.02	14.33	47.83	37.74	53.24	50.56	61.46	NA	62.35	58.47	6.96	6.64	17.87	18.42	Yes
7/21/2021	9.63	14.32	38.54	27.30	50.73	49.84	54.51	70.97	62.26	58.33	6.92	6.57	17.10	17.26	Yes
7/22/2021	9.76	13.54	23.30	13.79	51.01	49.14	47.44	59.91	52.83	49.40	5.58	5.54	13.17	13.42	Yes
7/23/2021	10.10	14.67	28.83	17.80	52.80	51.57	50.24	81.00	61.57	57.56	6.90	6.43	15.29	15.54	Yes
7/24/2021	9.88	14.59	30.34	19.15	53.88	52.68	51.45	84.78	61.84	57.66	6.99	6.39	15.43	15.61	Yes
7/25/2021	10.11	14.57	30.11	18.94	55.05	53.47	52.33	79.88	61.78	57.65	7.00	6.42	15.42	15.63	Yes
7/26/2021	10.11	14.47	30.80	19.57	55.02	53.17	52.26	79.75	65.51	61.50	6.85	6.46	13.53	13.72	Yes
7/27/2021	10.42	14.37	33.61	22.91	54.30	52.04	52.66	79.34	60.77	56.76	6.38	5.89	17.46	17.65	Yes
7/28/2021	10.52	14.86	39.31	29.01	52.27	50.43	53.09	80.05	61.89	57.69	7.00	6.37	15.74	15.98	Yes
7/29/2021	9.62	14.01	40.81	30.86	51.19	49.19	52.81	78.54	62.02	57.66	6.98	6.35	15.59	16.00	Yes
7/30/2021	8.55	13.02	40.18	30.32	51.27	49.10	52.44	78.89	61.91	57.70	7.04	6.43	15.42	15.77	Yes
7/31/2021	7.83	12.77	40.13	30.01	49.27	48.19	51.24	79.39	64.81	60.35	7.02	6.28	15.57	15.75	Yes

Notes:

All measurements in elevation above mean sea level.

NA or NM = Not measured or otherwise not available

No data were available for the following dates/wells:

R-07 Refurbished July 1 - 5, 2021

R-06 refurbished July 7 - 8, 2021

R-05 refurbished July 12 - 20, 2021

Q3 2021 DAILY HYDRAULIC GRADIENT FOR RECOVERY WELL PAIRINGS

FLORENCE COPPER INC.

FLORENCE, ARIZONA

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Table 5. August 2021 Daily Hydraulic Gradient for Recovery Well Pairings

Date	R-01		R-02		R-03		R-04	R-05	R-06		R-07		R-08		All Gradients > 1 foot?
	O-01	O-07	O-01	O-02	O-02	O-03	O-03	O-04	O-04	O-05	O-05	O-06	O-06	O-07	
8/1/2021	9.11	14.18	46.02	36.09	48.58	53.70	56.93	95.48	71.98	67.50	6.94	6.35	15.55	15.85	Yes
8/2/2021	10.49	16.23	69.43	59.43	47.83	54.50	57.81	101.49	73.72	69.42	7.02	6.66	16.03	16.02	Yes
8/3/2021	10.24	15.11	50.21	40.82	49.87	51.37	54.76	94.35	67.90	63.87	6.65	6.40	NA	NA	Yes
8/4/2021	10.64	15.13	44.16	35.02	50.76	48.71	51.67	78.71	59.86	55.98	6.82	6.45	NA	NA	Yes
8/5/2021	9.19	14.48	38.42	28.44	48.45	47.60	51.07	82.24	62.47	58.02	6.87	6.11	NA	NA	Yes
8/6/2021	7.92	14.25	41.74	31.41	49.28	49.83	61.42	111.61	81.60	76.73	6.84	6.06	NA	NA	Yes
8/7/2021	7.39	14.02	36.85	26.87	48.77	46.42	56.43	102.19	74.59	69.80	6.32	5.42	NA	NA	Yes
8/8/2021	7.53	14.62	40.56	29.69	48.65	50.13	61.81	112.71	80.45	75.29	6.99	6.05	NA	NA	Yes
8/9/2021	8.34	14.75	40.43	30.57	50.42	49.36	60.59	112.93	80.21	75.04	7.08	5.97	NA	NA	Yes
8/10/2021	7.07	8.65	40.57	29.76	48.51	48.35	59.95	114.29	80.01	74.81	7.02	6.00	NA	NA	Yes
8/11/2021	7.38	14.55	40.44	29.53	49.66	49.69	61.26	88.57	62.52	57.51	7.01	5.88	NA	NA	Yes
8/12/2021	7.35	14.45	40.31	29.75	50.33	48.56	60.02	89.57	63.21	58.24	6.98	5.88	NA	NA	Yes
8/13/2021	6.16	14.26	38.07	26.67	45.45	44.96	56.15	107.23	75.71	69.88	7.18	5.61	19.31	18.86	Yes
8/14/2021	4.56	13.32	32.34	20.30	44.64	45.46	53.44	94.05	66.75	60.42	7.54	5.44	16.49	15.89	Yes
8/15/2021	4.45	13.18	32.89	21.01	43.50	44.42	53.62	94.13	66.79	60.42	7.63	5.49	16.99	16.32	Yes
8/16/2021	5.01	13.86	56.15	43.59	43.61	43.61	62.51	156.09	110.98	104.91	7.11	5.99	23.14	22.74	Yes
8/17/2021	9.60	15.14	34.15	24.45	52.53	54.98	62.95	98.08	74.49	69.90	6.84	6.39	25.15	25.17	Yes
8/18/2021	9.68	16.51	29.53	19.05	50.77	55.58	63.95	95.87	71.67	67.29	6.55	5.97	20.49	20.03	Yes
8/19/2021	9.89	16.72	31.48	21.00	49.86	56.27	65.44	100.78	74.97	70.47	6.57	5.96	18.13	17.61	Yes
8/20/2021	10.76	14.33	24.27	23.29	61.69	60.81	65.76	81.86	14.68	11.50	4.83	4.17	20.71	20.74	Yes
8/21/2021	12.68	16.05	25.71	24.08	61.73	60.75	66.99	84.03	14.58	11.54	8.96	8.31	14.81	14.93	Yes
8/22/2021	10.61	14.19	23.80	22.72	61.56	60.65	66.02	82.06	14.51	11.52	4.69	4.04	14.69	14.89	Yes
8/23/2021	11.15	14.60	24.42	23.85	83.17	82.35	88.18	81.39	14.66	11.56	5.10	4.42	14.74	14.93	Yes
8/24/2021	10.37	13.96	23.57	22.05	86.72	86.30	87.52	82.25	14.59	11.68	4.59	3.98	15.49	15.71	Yes
8/25/2021	9.72	13.46	20.81	18.80	84.07	84.41	84.50	74.61	14.57	11.63	5.57	5.02	14.56	14.95	Yes
8/26/2021	8.61	11.46	12.57	5.65	74.44	80.26	75.96	47.56	15.31	11.69	9.64	9.13	8.50	9.66	Yes
8/27/2021	10.81	14.01	24.23	23.55	86.14	84.65	86.09	80.15	14.25	11.48	4.26	3.90	14.39	14.80	Yes
8/28/2021	10.76	13.96	24.39	23.28	85.54	84.48	86.16	80.63	14.21	11.54	4.28	3.93	14.62	15.02	Yes
8/29/2021	10.78	13.95	24.42	23.12	85.13	83.77	85.59	81.08	14.30	11.60	4.22	3.94	14.44	14.89	Yes
8/30/2021	10.56	13.94	24.14	23.72	85.78	84.15	86.07	81.36	14.31	11.60	4.23	3.94	14.64	15.07	Yes
8/31/2021	10.56	13.96	4.69	5.49	86.24	84.13	68.36	79.58	14.86	12.03	4.30	3.91	5.09	5.46	Yes

Notes:

All measurements in elevation above mean sea level.

NA or NM = Not measured or otherwise not available

No data were available for the following dates/wells:

R-08 redevelopment August 3 - 12, 2021

Q3 2021 DAILY HYDRAULIC GRADIENT FOR RECOVERY WELL PAIRINGS

FLORENCE COPPER INC.

FLORENCE, ARIZONA

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Table 6. September 2021 Daily Hydraulic Gradient for Recovery Well Pairings

Date	R-01		R-02		R-03		R-04	R-05	R-06		R-07		R-08		All Gradients > 1 foot?
	O-01	O-07	O-01	O-02	O-02	O-03	O-03	O-04	O-04	O-05	O-05	O-06	O-06	O-07	
9/1/2021	8.00	11.38	9.64	10.09	79.54	78.99	72.65	39.86	15.41	12.16	4.53	3.77	9.07	9.66	Yes
9/2/2021	7.58	10.81	11.44	11.46	78.28	77.83	73.47	36.98	15.49	12.19	4.53	3.74	8.94	9.60	Yes
9/3/2021	6.64	9.86	10.06	10.06	78.63	78.52	73.23	38.68	26.91	23.72	3.39	2.79	8.63	9.27	Yes
9/4/2021	6.85	9.79	10.02	9.58	78.11	78.30	73.43	37.20	15.66	12.45	4.36	3.61	8.80	9.49	Yes
9/5/2021	6.67	9.75	10.16	10.34	78.49	77.84	73.51	35.85	15.21	11.94	4.40	3.63	8.72	9.41	Yes
9/6/2021	6.92	9.92	9.69	9.44	78.32	78.24	72.98	38.10	15.28	12.05	4.42	3.61	8.66	9.35	Yes
9/7/2021	6.50	5.24	10.61	11.97	79.07	77.55	73.99	34.55	15.19	12.03	4.42	3.59	6.25	2.66	Yes
9/8/2021	6.37	9.68	9.99	11.51	78.61	76.85	72.77	35.61	15.15	12.12	4.44	3.61	7.82	8.53	Yes
9/9/2021	6.53	9.83	10.25	11.47	78.09	76.60	72.73	29.98	9.92	12.11	4.43	3.59	3.33	4.05	Yes
9/10/2021	7.10	9.93	9.96	10.02	78.02	77.23	72.34	36.19	13.70	12.08	4.37	3.59	8.29	9.04	Yes
9/11/2021	6.76	9.70	10.26	11.17	79.16	77.61	73.56	34.76	14.15	12.19	4.45	3.53	8.93	9.61	Yes
9/12/2021	6.87	9.75	10.11	11.15	80.66	79.30	75.17	34.37	14.40	12.17	4.47	3.49	6.23	6.82	Yes
9/13/2021	6.68	9.62	10.31	11.67	81.20	79.61	76.19	32.32	14.59	12.21	4.49	3.44	6.00	6.54	Yes
9/14/2021	6.47	9.73	10.07	11.35	80.91	79.35	75.19	34.32	14.86	12.37	4.54	3.41	4.78	5.22	Yes
9/15/2021	7.14	9.91	8.73	9.84	83.54	82.05	76.32	36.91	14.43	12.04	4.36	3.36	4.11	4.62	Yes
9/16/2021	7.35	9.89	8.99	10.28	85.64	84.75	79.89	34.36	14.19	11.85	4.42	3.38	4.59	5.03	Yes
9/17/2021	7.25	9.85	8.95	10.30	86.45	85.68	80.88	32.53	14.91	12.47	4.43	3.37	4.38	4.76	Yes
9/18/2021	7.47	10.05	8.21	9.44	87.04	86.07	80.29	36.53	14.17	11.79	4.40	3.38	3.93	4.37	Yes
9/19/2021	7.12	9.83	8.71	9.99	85.40	84.39	79.37	34.27	14.11	11.80	4.37	3.38	4.01	4.47	Yes
9/20/2021	6.92	9.76	8.93	9.84	83.89	83.12	78.30	33.94	14.35	11.93	4.40	3.35	3.89	4.39	Yes
9/21/2021	7.18	9.75	8.57	10.09	81.41	80.44	78.73	38.17	14.65	12.01	4.47	3.39	3.95	4.56	Yes
9/22/2021	6.99	9.61	9.13	10.53	83.98	83.18	79.45	31.33	15.97	13.00	4.51	3.19	5.10	5.59	Yes
9/23/2021	8.35	12.14	21.17	15.31	78.20	82.03	86.41	75.90	58.93	55.07	5.52	4.28	8.53	9.07	Yes
9/24/2021	7.82	12.99	33.92	24.42	69.29	75.77	92.56	100.58	78.20	74.97	6.32	4.78	14.25	14.65	Yes
9/25/2021	7.68	12.96	34.22	24.66	67.26	73.85	91.45	102.28	78.55	75.55	6.31	4.82	14.62	15.04	Yes
9/26/2021	7.52	12.97	34.07	24.61	66.51	73.07	91.14	103.22	78.60	75.65	6.27	4.84	13.91	14.42	Yes
9/27/2021	7.29	12.82	37.65	28.20	64.66	71.24	89.99	101.12	79.25	76.35	6.32	4.86	14.46	14.96	Yes
9/28/2021	7.42	12.85	29.44	19.93	63.20	69.86	79.80	70.22	66.71	63.88	6.26	4.82	10.23	10.66	Yes
9/29/2021	7.61	12.93	23.62	13.87	64.19	70.97	82.82	15.49	61.69	58.65	6.29	4.76	8.35	8.70	Yes
9/30/2021	7.35	13.08	26.20	15.72	62.42	68.95	81.68	60.37	68.88	66.35	3.84	2.48	10.79	10.94	Yes

Notes:

All measurements in elevation above mean sea level.

Hydraulic Gradient - Daily Average Water Level Elevations - Observation and Recovery Wells

Figure 1i. Hydraulic Gradient for Wells Paired with R-01

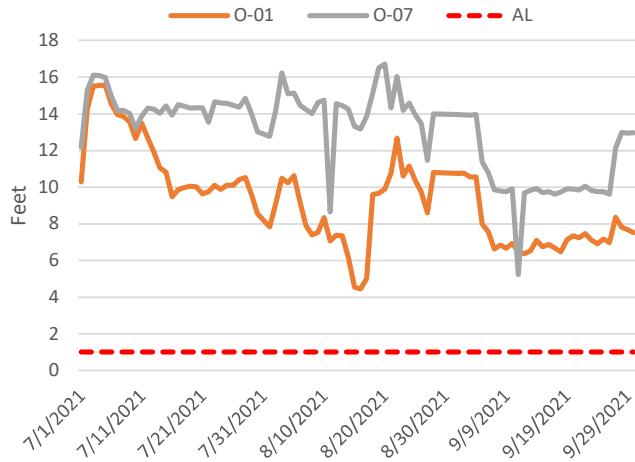


Figure 1j. Hydraulic Gradient for Wells Paired with R-02

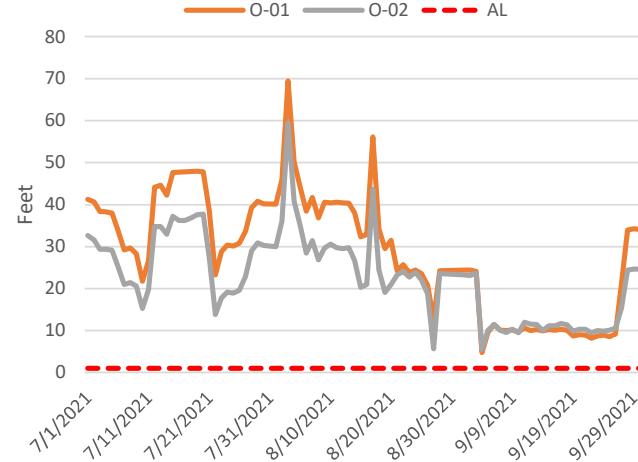


Figure 1k. Hydraulic Gradient for Wells Paired with R-03

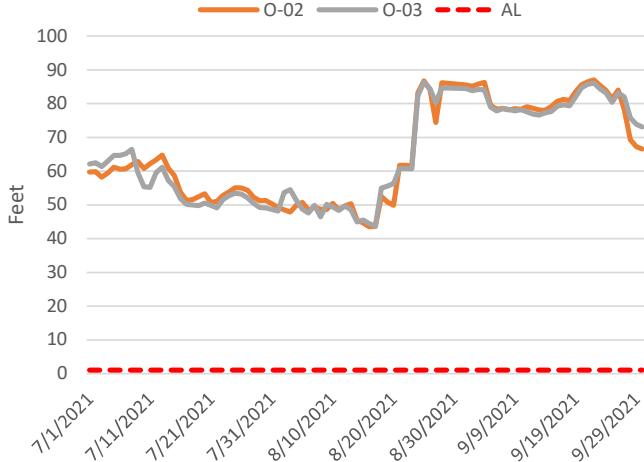
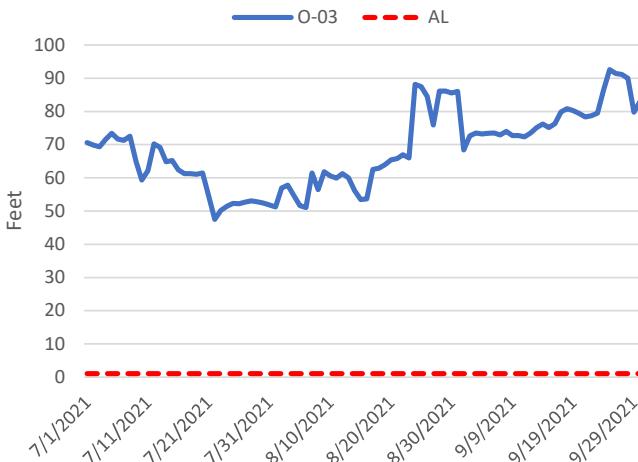


Figure 1l. Hydraulic Gradient for Wells Paired with R-04



Notes:

Refer to preceding Daily Hydraulic Gradient for Recovery Well Pairings Tables (Tables 4 - 6) for details on missing data points.

Hydraulic Gradient - Daily Average Water Level Elevations - Observation and Recovery Wells

Figure 1m. Hydraulic Gradient for Wells Paired with R-05



Figure 1n. Hydraulic Gradient for Wells Paired with R-06



Figure 1o. Hydraulic Gradient for Wells Paired with R-07

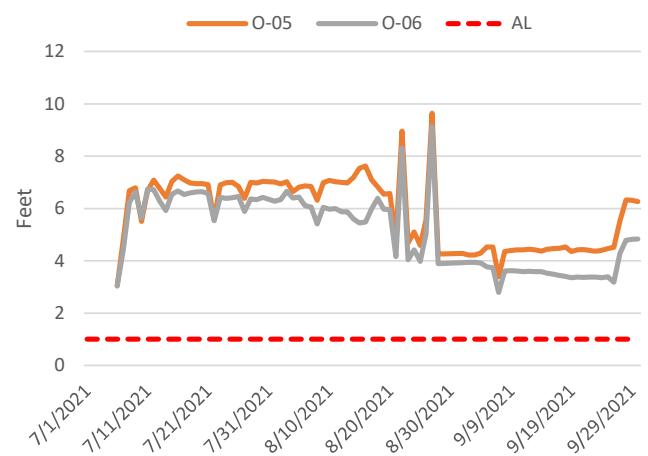
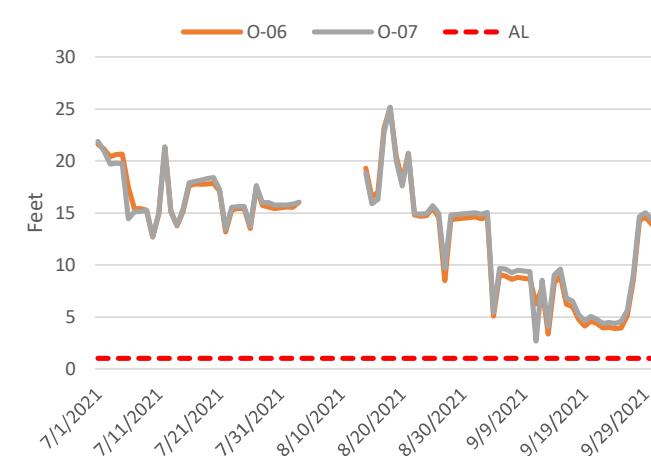


Figure 1p. Hydraulic Gradient for Wells Paired with R-08



Notes:

Refer to preceding Daily Hydraulic Gradient for Recovery Well Pairings Tables (Tables 4 - 6) for details on missing data points.

ATTACHMENT 4

Table and Graphs of Fluid Electrical Conductivity Measurements

**Q3 2021 DAILY FLUID ELECTRICAL CONDUCTIVITY
INJECTION AND OBSERVATION WELLS
FLORENCE COPPER INC.
FLORENCE, ARIZONA**

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Table 1. July 2021 Daily Fluid Electrical Conductivity

Date	I-01	I-02	I-03	I-04	O-01	O-02	O-03	O-04	O-05	O-06	O-07
7/1/2021	4026	2004	3820	3997	4700	3840	6240	1863	2820	2280	4580
7/2/2021	4445	4444	4453	4426	4880	4120	6560	1956	2780	2350	4160
7/3/2021	4677	4384	4398	4512	4710	4100	6580	1963	2810	2440	4600
7/4/2021	4233	4106	4194	4152	4710	4150	6700	2110	2830	2440	2000
7/5/2021	4146	4117	3972	4097	4970	3910	6350	2050	2790	2480	4990
7/6/2021	3938	3837	3788	3817	5520	3940	6440	2000	2840	2470	5070
7/7/2021	3347	3488	3240	3156	5400	3820	6390	1965	2700	2380	4960
7/8/2021	3677	3733	3746	3741	5390	3910	6490	1893	2470	2370	5080
7/9/2021	2253	3336	2952	2763	5190	3880	6410	1817	2340	2230	4920
7/10/2021	3019	2905	3065	3077	5130	4090	6940	1788	2510	1555	4890
7/11/2021	NA	NA	NA	NA	5330	4440	7240	1962	2790	1641	5180
7/12/2021	3334	3149	3120	3250	4930	4080	6860	1961	2660	1551	4870
7/13/2021	1331	1974	1319	1465	4920	3940	6710	1763	2620	1547	2810
7/14/2021	712	726	688	725	4960	3760	5440	1796	2580	1513	1675
7/15/2021	605	622	596	600	5920	3550	6260	1767	2430	1489	1614
7/16/2021	704	602	638	600	6210	3560	6290	1755	2400	1494	1593
7/17/2021	1057	807	819	828	6280	3600	6290	1762	2410	1515	1599
7/18/2021	694	690	561	640	6390	3790	6550	1812	2390	1522	1602
7/19/2021	735	741	758	741	6510	3770	6500	1819	2300	1498	1554
7/20/2021	763	737	740	742	6480	3740	6480	1786	2390	1457	1560
7/21/2021	644	667	638	651	6640	3790	690	1822	2440	1594	1644
7/22/2021	531	665	537	610	6970	4030	5500	2030	2750	1727	1761
7/23/2021	756	790	764	766	6030	3650	6280	1720	2410	1525	1561
7/24/2021	511	668	649	654	5810	3650	6220	1710	2380	1514	1537
7/25/2021	697	686	668	657	5980	3780	6510	1806	2540	1600	1636
7/26/2021	758	663	690	672	5400	3810	6470	1753	2340	1486	1538
7/27/2021	681	685	713	717	5350	3820	6510	1709	2340	1515	1558
7/28/2021	734	701	675	683	5240	3670	6140	1685	2340	1508	1528
7/29/2021	576	604	565	562	5080	3810	6550	1698	2370	1498	1517
7/30/2021	839	604	582	592	5190	3550	6290	1692	2390	1541	1540
7/31/2021	805	685	651	684	5040	3510	6150	1673	2350	1514	1519

Notes:

All measurements in microsemens per centimeter (uS/cm)

NA or NM = Not measured or otherwise not available

No data were available for the following dates/wells:

7/11/2021: No results reported for Injection wells

7/21/2021: O-03 outlier: likely recording error

INJECTION AND OBSERVATION WELLS

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 2. August 2021 Daily Fluid Electrical Conductivity

Date	I-01	I-02	I-03	I-04	O-01	O-02	O-03	O-04	O-05	O-06	O-07
8/1/2021	991	928	941	960	5050	3530	6140	1676	2370	1507	1519
8/2/2021	769	1326	1808	1089	5160	3600	NA	1719	2420	1562	1572
8/3/2021	2689	2699	2713	2649	5000	3580	NA	1681	2300	1520	1510
8/4/2021	2661	2622	2683	2672	5030	3530	5830	1694	1360	1527	1540
8/5/2021	3255	3146	3257	2362	4820	3610	6400	1636	2310	1516	1507
8/6/2021	793	1231	848	876	5000	3810	6730	1689	2380	1574	1535
8/7/2021	NA	NA	NA	NA	4880	3040	5210	1669	2350	1556	1555
8/8/2021	NA	NA	NA	NA	5050	3490	5960	1703	2410	1584	1592
8/9/2021	5375	NA	5333	5254	5130	3530	6000	1707	2400	1593	1591
8/10/2021	1375	1243	1328	1466	5300	3260	5960	1613	2280	1503	1510
8/11/2021	4541	1621	4549	4592	5300	3550	1727	1642	2220	1513	1501
8/12/2021	1894	1703	2085	2213	5320	3270	5970	1608	2270	151	1517
8/13/2021	1168	1946	1175	1184	5170	3260	5960	1676	2240	1621	1548
8/14/2021	NA	NA	NA	NA	5630	3170	6090	1644	2280	1569	1555
8/15/2021	972	NA	620	620	NA	3070	5930	1600	2190	1511	1514
8/16/2021	594	NA	602	591	NA	3050	5850	1562	2160	1493	1488
8/17/2021	1769	NA	653	562	NA	3200	5970	1601	2230	1560	1514
8/18/2021	718	NA	543	583	4870	3650	5990	1612	2370	1572	1556
8/19/2021	568	NA	518	516	4850	3580	5660	1598	2320	1583	1826
8/20/2021	820	NA	597	588	4740	3460	2930	1549	2230	1559	1692
8/21/2021	522	NA	465	NA	4910	2970	4510	1467	2200	1586	587
8/22/2021	597	NA	514	NA	4720	2780	3960	1534	2120	1498	1458
8/23/2021	558	NA	550	NA	4970	2880	4160	1604	2230	1546	1520
8/24/2021	597	NA	585	NA	5320	3130	4270	1706	2380	1644	1624
8/25/2021	799	NA	482	NA	5300	3420	4400	1708	2310	1637	1628
8/26/2021	541	NA	513	NA	5000	NA	NA	1595	2240	1531	1530
8/27/2021	800	NA	652	NA	5060	NA	2900	1605	2240	1556	1541
8/28/2021	574	NA	506	NA	4930	NA	2780	1592	2210	1545	1527
8/29/2021	4657	NA	4764	NA	5080	NA	2480	1616	2240	1529	1561
8/30/2021	641	NA	584	NA	5020	NA	4070	1608	1563	2219	1589
8/31/2021	781	NA	757	NA	5369	2960	2831	1750	2380	1679	1675

Notes:

All measurements in microsemens per centimeter (μS/cm)

N/A or NM = Not measured or otherwise not available

No data were available for the following dates/wells:

8/2 - 8/3/2021: O-03 out of service

8/7 - 8/8/2021: No injection well samples reported

8/9/2021: No injection into I-02

8/14/2021: No injection well samples reported

8/14 - 8/31/2021: No injection into I-02

8/15 - 8/17/2021: O-01 out of service

8/21 - 8/31/2021: No injection into I-04

8/26/2021: No results for O-03

8/26 - 8/30/2021: O-02 redevelopment/pump replacement

Q3 2021 DAILY FLUID ELECTRICAL CONDUCTIVITY

Page 3 of 3

INJECTION AND OBSERVATION WELLS

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 3. September 2021 Daily Fluid Electrical Conductivity

Date	I-01	I-02	I-03	I-04	O-01	O-02	O-03	O-04	O-05	O-06	O-07
9/1/2021	1429	NA	1397	NA	4982	3503	2861	1599	2135	1635	1480
9/2/2021	570	NA	558	NA	4969	3604	4070	1589	2173	1695	1540
9/3/2021	559	NA	542	NA	5008	2591	4045	1535	2087	1780	1432
9/4/2021	NA	NA	NA	NA	5056	NA	NA	1580	2215	1827	1539
9/5/2021	NA	NA	NA	NA	4967	1226	4187	1530	2050	1700	1460
9/6/2021	727	NA	584	NA	5034	3250	3900	1522	2087	1468	1794
9/7/2021	624	NA	503	NA	5074	3234	4001	1598	2113	1803	1534
9/8/2021	628	NA	464	NA	5611	3564	4225	1729	2329	1989	1687
9/9/2021	571	NA	556	NA	5640	2259	3275	NA	2384	1991	1664
9/10/2021	1204	NA	768	NA	5302	2827	2161	NA	2219	1894	1603
9/11/2021	545	NA	569	NA	5209	2718	2381	1785	2236	1599	1891
9/12/2021	484	NA	500	NA	5286	2775	2002	1846	2240	1810	1618
9/13/2021	580	NA	575	NA	5401	2729	2194	1695	2291	1794	1691
9/14/2021	646	NA	693	NA	4966	3490	2102	1488	2031	1564	1455
9/15/2021	548	NA	501	NA	5247	3448	2099	1587	2158	1640	1589
9/16/2021	683	NA	689	NA	5508	3393	2007	1790	2351	1710	1687
9/17/2021	540	NA	496	NA	4935	3201	2781	1554	2107	1530	1510
9/18/2021	482	NA	471	NA	5066	3384	3047	1577	2084	1526	1515
9/19/2021	563	NA	547	NA	5266	3687	3055	1660	2252	1620	1550
9/20/2021	536	NA	465	NA	5375	3663	2892	1660	2272	1900	1618
9/21/2021	1246	NA	1238	NA	5367	3663	3002	1627	2270	1904	1618
9/22/2021	1442	NA	1482	NA	5515	3037	2628	1699	2366	1924	1673
9/23/2021	520	NA	510	NA	5485	3088	4140	1674	2329	1777	1640
9/24/2021	464	NA	456	NA	5438	3636	4005	1672	2340	1657	1664
9/25/2021	439	NA	440	NA	5545	3769	4094	1682	2341	1677	1647
9/26/2021	1408	NA	388	NA	5459	3848	5438	1723	2366	1707	1691
9/27/2021	1869	NA	1753	NA	NA	3773	3810	1707	2340	1677	1677
9/28/2021	1569	NA	394	NA	NA	3219	2992	NA	2153	1561	1540
9/29/2021	325	NA	321	NA	4795	3437	3437	1610	2120	1612	1543
9/30/2021	374	NA	341	NA	NA	3678	3720	1705	2277	1712	1657

Notes:All measurements in microsemens per centimeter ($\mu\text{S}/\text{cm}$)

N/A or NM = Not measured or otherwise not available

No data were available for the following dates/wells:

9/1 - 9/30/2021: I-02 and I-04 off - no injection

9/4/2021: No data for I-01, I-03, O-02, and O-03

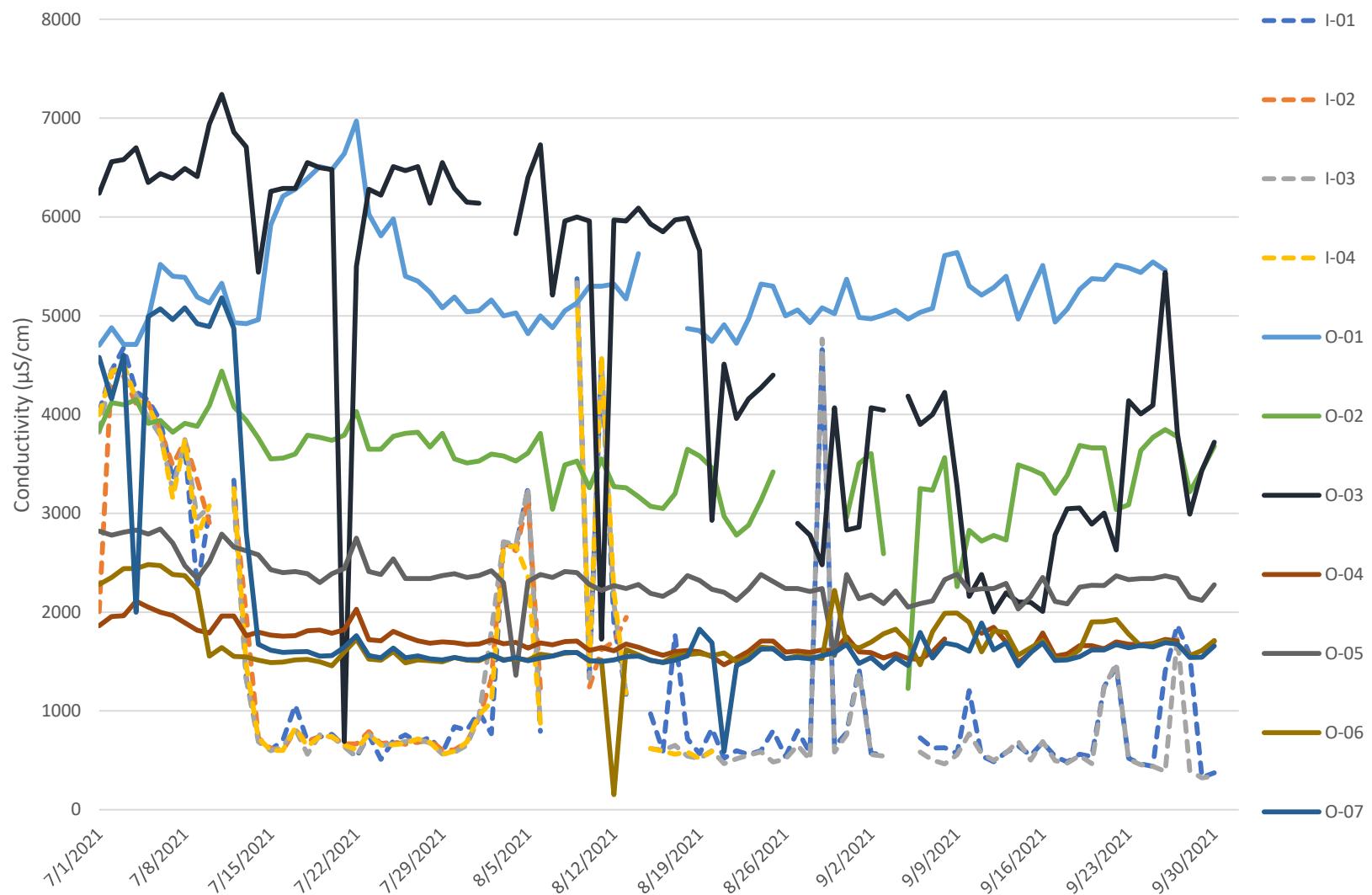
9/5/2021: No data for I-01 and I-03

9/9 - 9/10/2021: O-04 bladder pump repairs

9/27 - 9/28/2021, & 9/30/2021: O-01 bladder pump repairs

9/28/2021: O-04 bladder pump repairs

Figure 1. Daily Fluid Electrical Conductivity in Injection & Observation Wells



ATTACHMENT 5

Table and Graphs of Bulk Electrical Conductivity Measurements

MEMORANDUM

28 October 2021
File No. 133887-012

TO: Florence Copper Inc.
Mr. Brent Berg, General Manager

C: Florence Copper Inc.
Mr. Ian Ream, Senior Hydrogeologist

FROM: Haley & Aldrich, Inc.
Laura Menken, R.G.

SUBJECT: Summary of Bulk Electrical Conductivity Monitoring Results
Third Quarter 2021
Production Test Facility
Florence Copper Inc.
Florence, Arizona



Haley & Aldrich, Inc. (Haley & Aldrich) has conducted statistical analysis of bulk electrical conductivity (EC) data collected by HydroGeophysics, Inc. at the Florence Copper Inc. (Florence Copper) Production Test Facility (PTF) located in Florence, Arizona, in accordance with Underground Injection Control (UIC) Permit No. R9UIC-AZ3-FR11-1. The procedures used to complete the analysis were described in the document titled *Procedures for Determining Bulk Electrical Conductivity Alert Levels* (Haley & Aldrich, 2018).¹

Alert levels (AL) for bulk EC were initially approved in the letter issued by the U.S. Environmental Protection Agency (USEPA) dated 14 December 2018. On 27 February 2020, Florence Copper submitted a request to revise bulk EC ALs to the USEPA. The proposed ALs were adopted in the now-retired Temporary Aquifer Protection Permit (Temporary APP) No. P-106360 on 13 February 2020. The bulk EC ALs remained unchanged in subsequent amendments of the Temporary APP until its retirement on 14 December 2020.

¹ Haley & Aldrich, Inc., 2018. *Procedures for Determining Bulk Electrical Conductivity Alert Levels, Production Test Facility, Florence Copper Project*. August.

Alert Levels

To ensure that in-situ copper recovery fluids do not enter the Lower Basin Fill Unit (LBFU) from the Bedrock Oxide Unit, the three upper horizons (1 through 3) are monitored. The following ALs are established for these horizons:

Electrode Pair Horizon	Alert Level (ohm-meters)
Horizon 1	9.67
Horizon 2	9.89
Horizon 3	10.07

The ALs represent minimum values. Consequently, an exceedance is indicated if the measured apparent resistivity on one of these horizons is *lower* than the established AL on three adjacent or intersecting current paths.

Third Quarter 2021 Monitoring Results

Third quarter (Q3) 2021 includes 14 monitoring events for bulk EC between 1 July and 27 September 2021. Monitoring events were conducted on a weekly basis. No bulk EC AL exceedances occurred during the Q3 2021 monitoring period. Bulk EC monitoring maps for the monitoring period detail these results (Figures 1 through 14).

Data Summary

Tables 1 through 3 list the apparent resistivity results over this monitoring period for horizons 1 through 3, respectively.

Relative to the baseline dataset, no outliers were detected on these monitoring dates (defined as values over 4 times the interquartile range outside the range around the data median). As shown by the box plots presented in Attachment A and Tables 1 through 3, the grouped data from each horizon fall within or slightly below the range of the baseline dataset.

Attachment B shows the data from each horizon over time, during the baseline period, and monitoring both before and after the PTF became operational. The data collected during Q3 2021 is within the established tolerance limits.

Enclosures:

Table 1: Bulk Electrical Conductivity Monitoring Results, Horizon 1 (40 Feet Above LBFU/Oxide Contact)

Table 2: Bulk Electrical Conductivity Monitoring Results, Horizon 2 (20 Feet Above LBFU/Oxide Contact)

Table 3: Bulk Electrical Conductivity Monitoring Results, Horizon 3 (at LBFU/Oxide Contact)

Figure 1: Apparent Bulk Resistivity Between Electrode Pairs by Horizon – 7/1/2021

Figure 2: Apparent Bulk Resistivity Between Electrode Pairs by Horizon – 7/8/2021

Figure 3: Apparent Bulk Resistivity Between Electrode Pairs by Horizon – 7/15/2021

Figure 4: Apparent Bulk Resistivity Between Electrode Pairs by Horizon – 7/22/2021

Figure 5: Apparent Bulk Resistivity Between Electrode Pairs by Horizon – 7/29/2021

Figure 6: Apparent Bulk Resistivity Between Electrode Pairs by Horizon – 8/5/2021

Figure 7: Apparent Bulk Resistivity Between Electrode Pairs by Horizon – 8/12/2021

Figure 8: Apparent Bulk Resistivity Between Electrode Pairs by Horizon – 8/20/2021

Figure 9: Apparent Bulk Resistivity Between Electrode Pairs by Horizon – 8/28/2021

Figure 10: Apparent Bulk Resistivity Between Electrode Pairs by Horizon – 9/2/2021

Figure 11: Apparent Bulk Resistivity Between Electrode Pairs by Horizon – 9/7/2021

Figure 12: Apparent Bulk Resistivity Between Electrode Pairs by Horizon – 9/16/2021

Figure 13: Apparent Bulk Resistivity Between Electrode Pairs by Horizon – 9/23/2021

Figure 14: Apparent Bulk Resistivity Between Electrode Pairs by Horizon – 9/27/2021

Attachment A: Box Diagrams for Third Quarter Monitoring Data

Attachment B: Summary Plot of Bulk Electrical Conductivity

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TABLES

TABLE 1

BULK ELECTRICAL CONDUCTIVITY MONITORING RESULTS

HORIZON 1 (40 FEET ABOVE LBFU/OXIDE CONTACT)

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Electrode 1	Electrode 2	Sending Well	Receiving Well	Apparent Resistivity ($\Omega\text{-m}$)													
				7/1/2021	7/8/2021	7/15/2021	7/22/2021	7/29/2021	8/5/2021	8/12/2021	8/20/2021	8/28/2021	9/2/2021	9/7/2021	9/16/2021	9/23/2021	9/27/2021
B-01-BC-01	B-02-BC-01	O-01	O-02	12.64	12.83	12.81	12.82	12.56	12.64	12.59	12.59	12.58	12.68	12.70	12.78	12.64	12.70
B-01-BC-01	B-03-BC1-02	O-01	O-03	11.14	11.56	11.47	11.52	10.92	11.09	10.89	10.96	11.05	11.18	11.25	11.40	11.16	11.27
B-01-BC-01	B-04-BC-01	O-01	O-04	13.20	13.77	13.64	13.69	12.86	13.06	12.91	12.89	12.68	13.16	13.28	13.47	12.91	13.29
B-01-BC-01	B-05-BC-01	O-01	O-05	12.15	12.66	12.56	12.59	11.86	11.99	11.87	11.83	11.50	12.09	12.19	12.36	11.86	12.20
B-01-BC-01	B-06-BC-01	O-01	O-06	11.64	12.04	12.01	12.02	11.40	11.51	11.40	11.37	11.09	11.60	11.68	11.79	11.49	11.68
B-01-BC-01	B-07-BC1-02	O-01	O-07	11.72	11.99	11.97	11.98	11.57	11.65	11.59	11.57	11.39	11.72	11.77	11.85	11.58	11.77
B-02-BC-01	B-03-BC1-02	O-02	O-03	10.35	10.61	10.59	10.60	10.18	10.31	10.23	10.22	10.18	10.36	10.43	10.52	10.35	10.42
B-02-BC-01	B-04-BC-01	O-02	O-04	13.87	14.44	14.34	14.37	13.56	13.68	13.55	13.51	13.18	13.80	13.94	14.14	13.75	13.90
B-02-BC-01	B-05-BC-01	O-02	O-05	13.44	14.02	13.88	13.92	13.09	13.20	13.06	13.03	12.48	13.29	13.41	13.60	13.07	13.42
B-02-BC-01	B-06-BC-01	O-02	O-06	13.38	13.90	13.83	13.84	13.06	13.13	12.98	12.98	12.41	13.25	13.35	13.52	13.17	13.32
B-02-BC-01	B-07-BC1-02	O-02	O-07	12.29	12.68	12.64	12.64	12.02	12.16	12.05	12.02	11.61	12.24	12.34	12.40	12.07	12.31
B-03-BC1-02	B-04-BC-01	O-03	O-04	12.52	12.94	12.84	12.87	12.23	12.39	12.29	12.23	11.98	12.50	12.55	12.71	12.46	12.55
B-03-BC1-02	B-05-BC-01	O-03	O-05	12.96	13.46	13.35	13.38	12.65	12.75	12.64	12.60	12.08	12.88	12.95	13.12	12.79	12.94
B-03-BC1-02	B-06-BC-01	O-03	O-06	14.03	14.62	14.51	14.56	13.70	13.79	13.56	13.65	12.96	13.92	14.03	14.38	13.86	14.04
B-03-BC1-02	B-07-BC1-02	O-03	O-07	13.25	13.79	13.69	13.75	12.95	13.09	12.96	12.95	12.33	13.23	13.33	13.54	13.09	13.33
B-04-BC-01	B-05-BC-01	O-04	O-05	10.72	10.89	10.81	10.85	10.60	10.68	10.66	10.62	10.56	10.75	10.78	10.86	10.72	10.76
B-04-BC-01	B-06-BC-01	O-04	O-06	12.16	12.56	12.46	12.52	11.93	12.11	12.05	12.03	11.76	12.25	12.36	12.49	12.18	12.32
B-04-BC-01	B-07-BC1-02	O-04	O-07	12.70	13.30	13.20	13.25	12.53	12.73	12.59	12.56	12.19	12.82	12.95	13.12	12.64	12.91
B-05-BC-01	B-06-BC-01	O-05	O-06	9.98	10.25	10.18	10.22	9.86	10.08	10.01	10.02	9.94	10.14	10.21	10.28	10.09	10.17
B-05-BC-01	B-07-BC1-02	O-05	O-07	10.78	11.17	11.10	11.14	10.59	10.78	10.68	10.68	10.52	10.85	10.91	11.04	10.80	10.92
B-06-BC-01	B-07-BC1-02	O-06	O-07	9.97	10.16	10.14	10.15	9.89	9.97	9.94	9.92	9.88	10.02	10.04	10.11	10.01	10.07

Notes

 $\Omega\text{-m}$ = ohm-meters

LBFU = Lower Basin Fill Unit

Oxide = Bedrock Oxide Unit

Horizon 1 Alert Level = 9.67 $\Omega\text{-m}$

TABLE 2**BULK ELECTRICAL CONDUCTIVITY MONITORING RESULTS****HORIZON 2 (20 FEET ABOVE LBFU/OXIDE CONTACT)**

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Electrode 1	Electrode 2	Sending Well	Receiving Well	Apparent Resistivity ($\Omega\text{-m}$)													
				7/1/2021	7/8/2021	7/15/2021	7/22/2021	7/29/2021	8/5/2021	8/12/2021	8/20/2021	8/28/2021	9/2/2021	9/7/2021	9/16/2021	9/23/2021	9/27/2021
B-01-BC-02	B-02-BC-02	O-01	O-02	14.39	14.59	14.51	14.55	14.33	14.35	14.31	14.28	14.33	14.36	14.39	14.49	14.31	14.40
B-01-BC-02	B-03-BC1-04	O-01	O-03	11.26	11.69	11.58	11.62	11.04	11.18	11.08	11.05	11.15	11.26	11.36	11.50	11.38	11.35
B-01-BC-02	B-04-BC-02	O-01	O-04	13.15	13.72	13.59	13.63	12.83	12.98	12.85	12.80	12.64	13.07	13.19	13.40	12.89	13.17
B-01-BC-02	B-05-BC-02	O-01	O-05	12.06	12.55	12.44	12.49	11.78	11.88	11.77	11.72	11.39	11.97	12.06	12.24	11.71	12.07
B-01-BC-02	B-06-BC-02	O-01	O-06	11.56	11.95	11.89	11.92	11.32	11.41	11.28	11.30	10.97	11.50	11.58	11.71	11.42	11.55
B-01-BC-02	B-07-BC1-04	O-01	O-07	11.72	11.98	11.93	11.96	11.58	11.65	11.58	11.57	11.39	11.71	11.77	11.85	11.65	11.75
B-02-BC-02	B-03-BC1-04	O-02	O-03	11.02	11.27	11.23	11.26	10.83	10.96	10.86	10.86	10.84	11.02	11.08	11.18	11.13	11.07
B-02-BC-02	B-04-BC-02	O-02	O-04	14.04	14.55	14.44	14.50	13.66	13.80	13.65	13.62	13.30	13.93	14.03	14.22	13.92	14.03
B-02-BC-02	B-05-BC-02	O-02	O-05	13.52	14.09	13.95	14.00	13.16	13.27	13.10	13.07	12.51	13.36	13.48	13.67	13.10	13.46
B-02-BC-02	B-06-BC-02	O-02	O-06	13.44	13.98	13.91	13.91	13.13	13.19	13.03	13.04	12.47	13.31	13.41	13.59	13.17	13.40
B-02-BC-02	B-07-BC1-04	O-02	O-07	12.29	12.69	12.63	12.67	12.05	12.18	12.06	12.04	11.62	12.26	12.36	12.48	12.16	12.33
B-03-BC1-04	B-04-BC-02	O-03	O-04	12.51	12.89	12.81	12.89	12.24	12.40	12.27	12.27	11.97	12.45	12.56	12.72	12.48	12.57
B-03-BC1-04	B-05-BC-02	O-03	O-05	12.88	13.32	13.24	13.30	12.57	12.67	12.54	12.51	12.01	12.74	12.78	13.04	12.59	12.86
B-03-BC1-04	B-06-BC-02	O-03	O-06	13.96	14.52	14.43	14.47	13.62	13.72	13.59	13.54	12.86	13.80	13.96	14.14	13.67	13.92
B-03-BC1-04	B-07-BC1-04	O-03	O-07	13.06	13.58	13.51	13.52	12.76	12.93	12.80	12.78	12.12	13.02	13.15	13.33	12.89	13.12
B-04-BC-02	B-05-BC-02	O-04	O-05	11.06	11.21	11.15	11.20	10.94	11.03	10.99	11.00	10.89	11.09	11.12	11.17	11.00	11.11
B-04-BC-02	B-06-BC-02	O-04	O-06	12.14	12.56	12.47	12.52	11.91	12.15	12.04	12.02	11.76	12.25	12.33	12.47	12.06	12.33
B-04-BC-02	B-07-BC1-04	O-04	O-07	12.60	13.12	13.01	13.08	12.32	12.53	12.39	12.34	12.01	12.62	12.74	12.92	12.50	12.69
B-05-BC-02	B-06-BC-02	O-05	O-06	10.15	10.48	10.41	10.42	10.10	10.31	10.19	10.21	10.12	10.36	10.42	10.50	10.23	10.39
B-05-BC-02	B-07-BC1-04	O-05	O-07	10.64	11.02	10.95	10.98	10.45	10.61	10.53	10.51	10.38	10.71	10.78	10.91	10.56	10.76
B-06-BC-02	B-07-BC1-04	O-06	O-07	10.75	10.91	10.89	10.86	10.62	10.75	10.70	10.69	10.65	10.79	10.83	10.88	10.74	10.81

Notes $\Omega\text{-m}$ = ohm-meters

LBFU = Lower Basin Fill Unit

Oxide = Bedrock Oxide Unit

Horizon 2 Alert Level = 9.89 $\Omega\text{-m}$

TABLE 3**BULK ELECTRICAL CONDUCTIVITY MONITORING RESULTS****HORIZON 3 (AT LBFU/OXIDE CONTACT)**

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Electrode 1	Electrode 2	Sending Well	Receiving Well	Apparent Resistivity ($\Omega\text{-m}$)													
				7/1/2021	7/8/2021	7/15/2021	7/22/2021	7/29/2021	8/5/2021	8/12/2021	8/20/2021	8/28/2021	9/2/2021	9/7/2021	9/16/2021	9/23/2021	9/27/2021
B-01-BC-03	B-02-BC-03	O-01	O-02	15.25	15.42	15.41	15.42	15.12	15.21	15.17	15.16	15.18	15.22	15.29	15.33	15.20	15.26
B-01-BC-03	B-03-BC2-02	O-01	O-03	11.40	11.85	11.78	11.73	11.18	11.33	11.24	11.20	11.26	11.40	11.50	11.62	11.29	11.49
B-01-BC-03	B-04-BC-03	O-01	O-04	13.08	13.64	13.51	13.60	12.77	12.94	12.80	12.75	12.58	13.00	13.12	13.32	12.91	13.14
B-01-BC-03	B-05-BC-03	O-01	O-05	11.96	12.48	12.38	12.43	11.72	11.83	11.69	11.67	11.33	11.89	11.99	12.14	11.75	12.00
B-01-BC-03	B-06-BC-03	O-01	O-06	11.44	11.82	11.75	11.78	11.18	11.26	11.17	11.16	10.91	11.34	11.43	11.55	11.20	11.44
B-01-BC-03	B-07-BC2-02	O-01	O-07	11.99	12.23	12.18	12.20	11.83	11.90	11.85	11.79	11.73	11.96	12.05	12.11	11.90	12.02
B-02-BC-03	B-03-BC2-02	O-02	O-03	11.01	11.30	11.22	11.23	10.80	10.93	10.86	10.86	10.80	11.05	11.14	11.23	11.01	11.14
B-02-BC-03	B-04-BC-03	O-02	O-04	13.89	14.44	14.30	14.39	13.55	13.70	13.56	13.51	13.15	13.79	13.90	14.10	13.63	13.89
B-02-BC-03	B-05-BC-03	O-02	O-05	13.29	13.94	13.81	13.87	13.07	13.14	13.02	12.99	12.43	13.25	13.33	13.53	13.09	13.33
B-02-BC-03	B-06-BC-03	O-02	O-06	13.34	13.87	13.77	13.80	13.02	13.07	12.95	12.91	12.34	13.18	13.27	13.46	13.20	13.27
B-02-BC-03	B-07-BC2-02	O-02	O-07	12.40	12.80	12.75	12.75	12.16	12.29	12.16	12.17	11.70	12.36	12.44	12.59	12.30	12.44
B-03-BC2-02	B-04-BC-03	O-03	O-04	12.41	12.92	12.78	12.86	12.20	12.33	12.24	12.22	11.92	12.45	12.53	12.68	12.35	12.53
B-03-BC2-02	B-05-BC-03	O-03	O-05	13.16	13.62	13.51	13.60	12.83	12.92	12.80	12.77	12.18	12.99	13.09	13.24	12.86	13.06
B-03-BC2-02	B-06-BC-03	O-03	O-06	14.50	15.03	14.99	15.05	14.13	14.21	14.03	13.99	13.25	14.25	14.35	14.55	14.15	14.35
B-03-BC2-02	B-07-BC2-02	O-03	O-07	13.47	13.98	13.91	13.98	13.15	13.30	13.13	13.12	12.38	13.36	13.46	13.63	13.27	13.43
B-04-BC-03	B-05-BC-03	O-04	O-05	11.75	11.92	11.86	11.88	11.62	11.72	11.67	11.67	11.57	11.77	11.80	11.88	11.74	11.80
B-04-BC-03	B-06-BC-03	O-04	O-06	12.27	12.69	12.57	12.63	12.02	12.24	12.17	12.13	11.84	12.36	12.44	12.57	12.19	12.41
B-04-BC-03	B-07-BC2-02	O-04	O-07	12.50	13.02	12.91	12.99	12.24	12.39	12.31	12.27	11.86	12.54	12.62	12.81	12.42	12.60
B-05-BC-03	B-06-BC-03	O-05	O-06	10.45	10.72	10.66	10.70	10.35	10.57	10.53	10.49	10.44	10.62	10.67	10.75	10.50	10.67
B-05-BC-03	B-07-BC2-02	O-05	O-07	10.48	10.89	10.81	10.87	10.30	10.48	10.41	10.37	10.23	10.56	10.64	10.76	10.33	10.63
B-06-BC-03	B-07-BC2-02	O-06	O-07	10.97	11.14	11.12	11.13	10.87	10.96	10.92	10.90	10.87	10.99	11.04	11.09	10.95	11.01

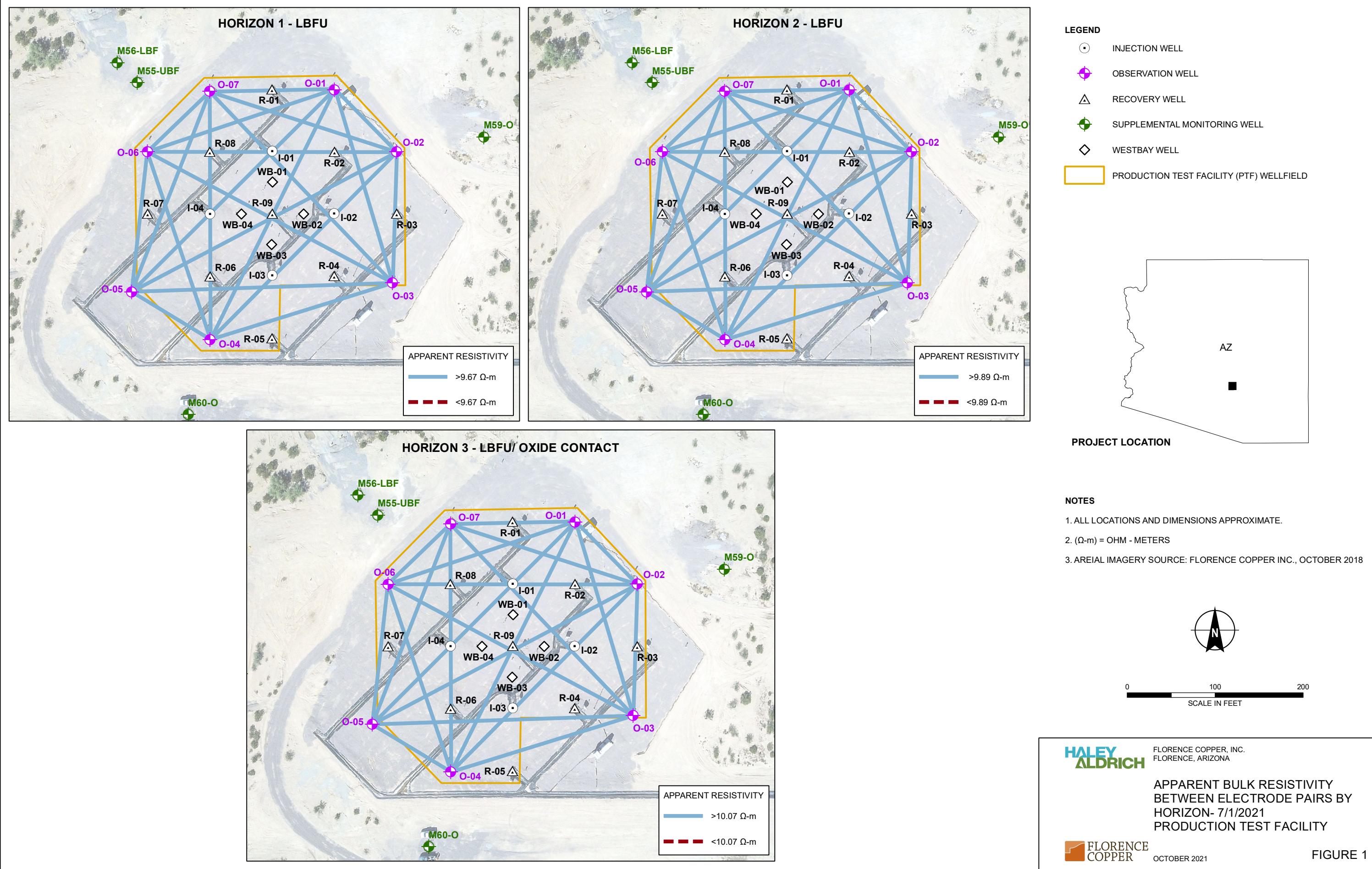
Notes $\Omega\text{-m}$ = ohm-meters

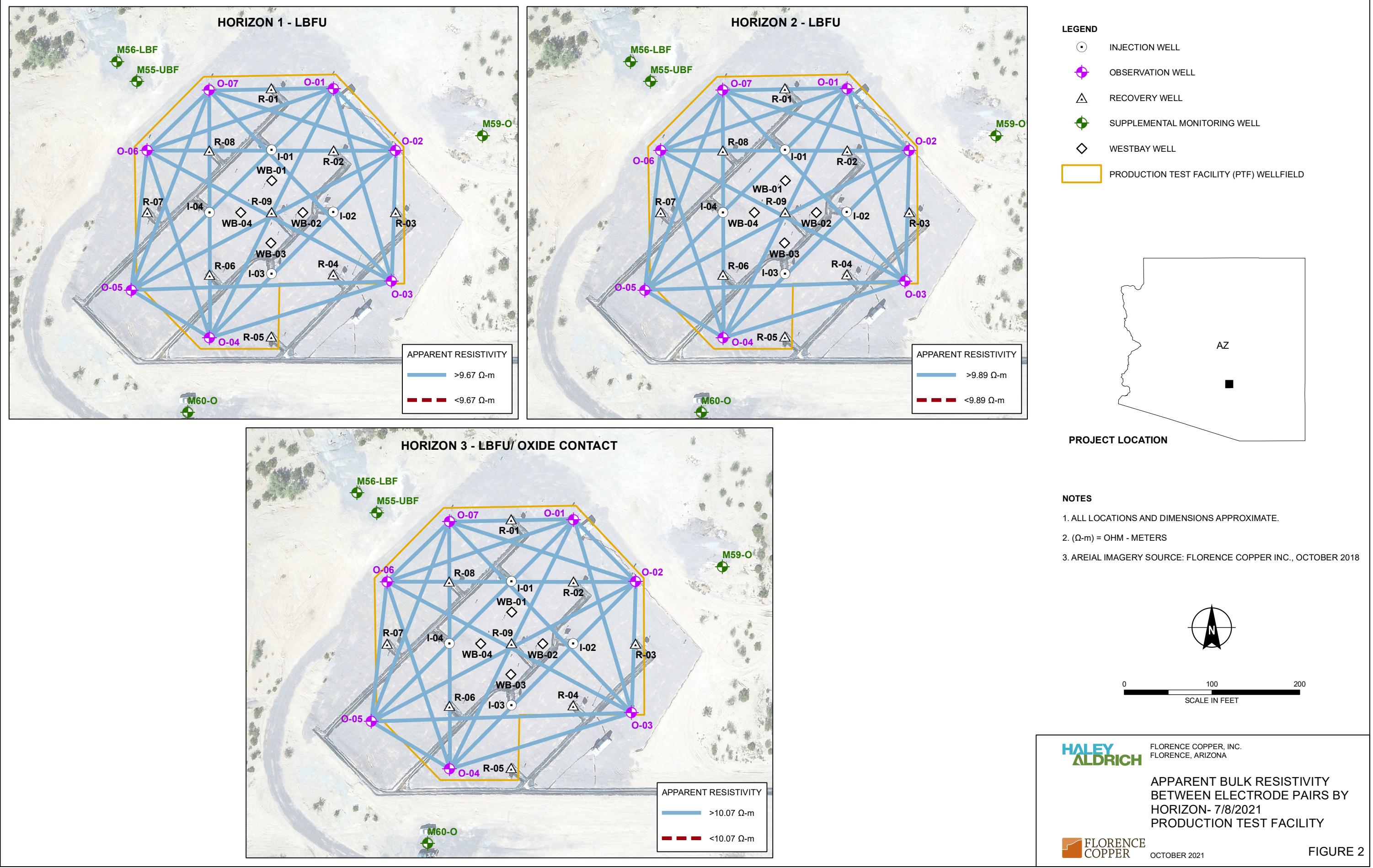
LBFU = Lower Basin Fill Unit

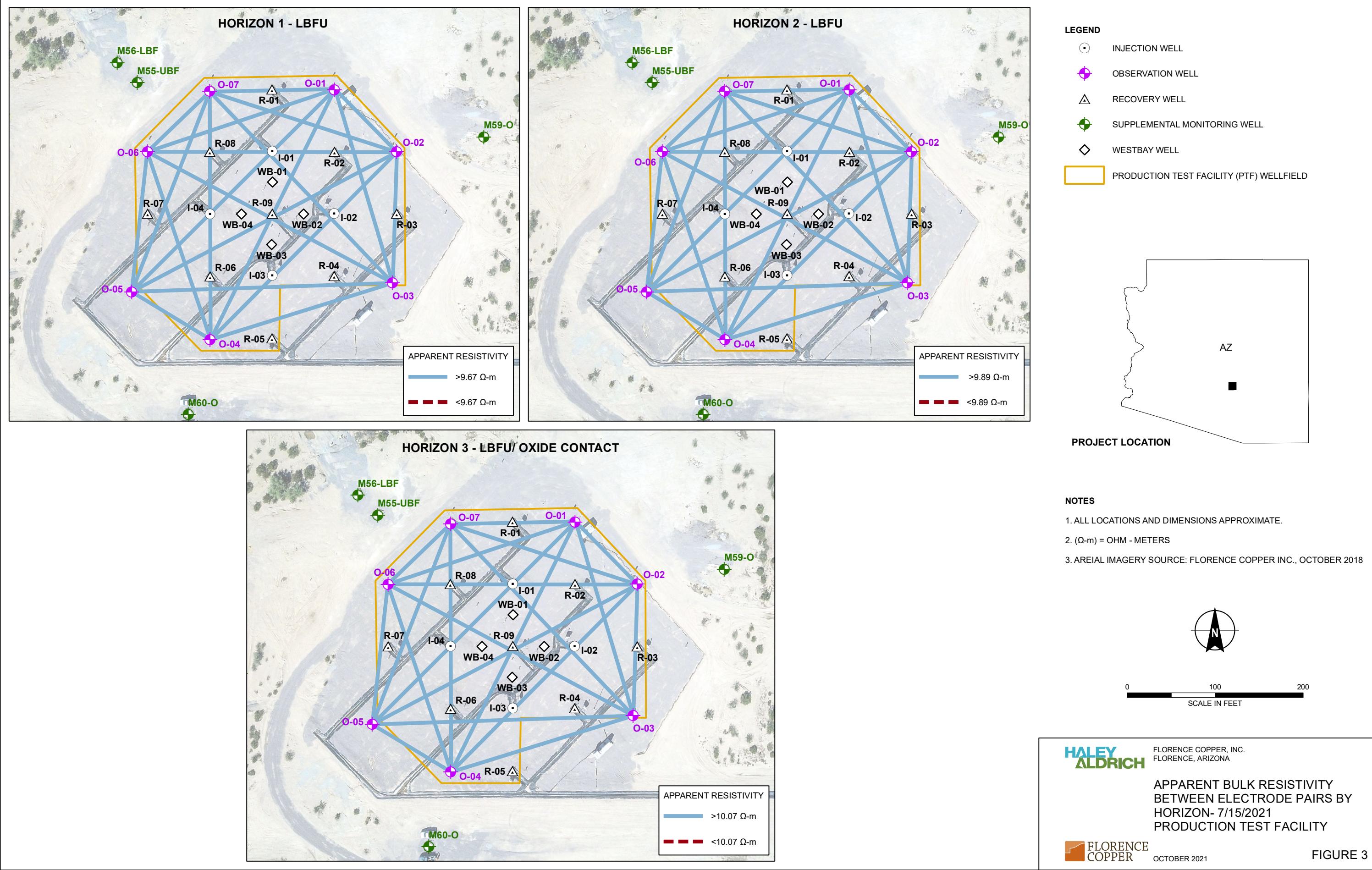
Oxide = Bedrock Oxide Unit

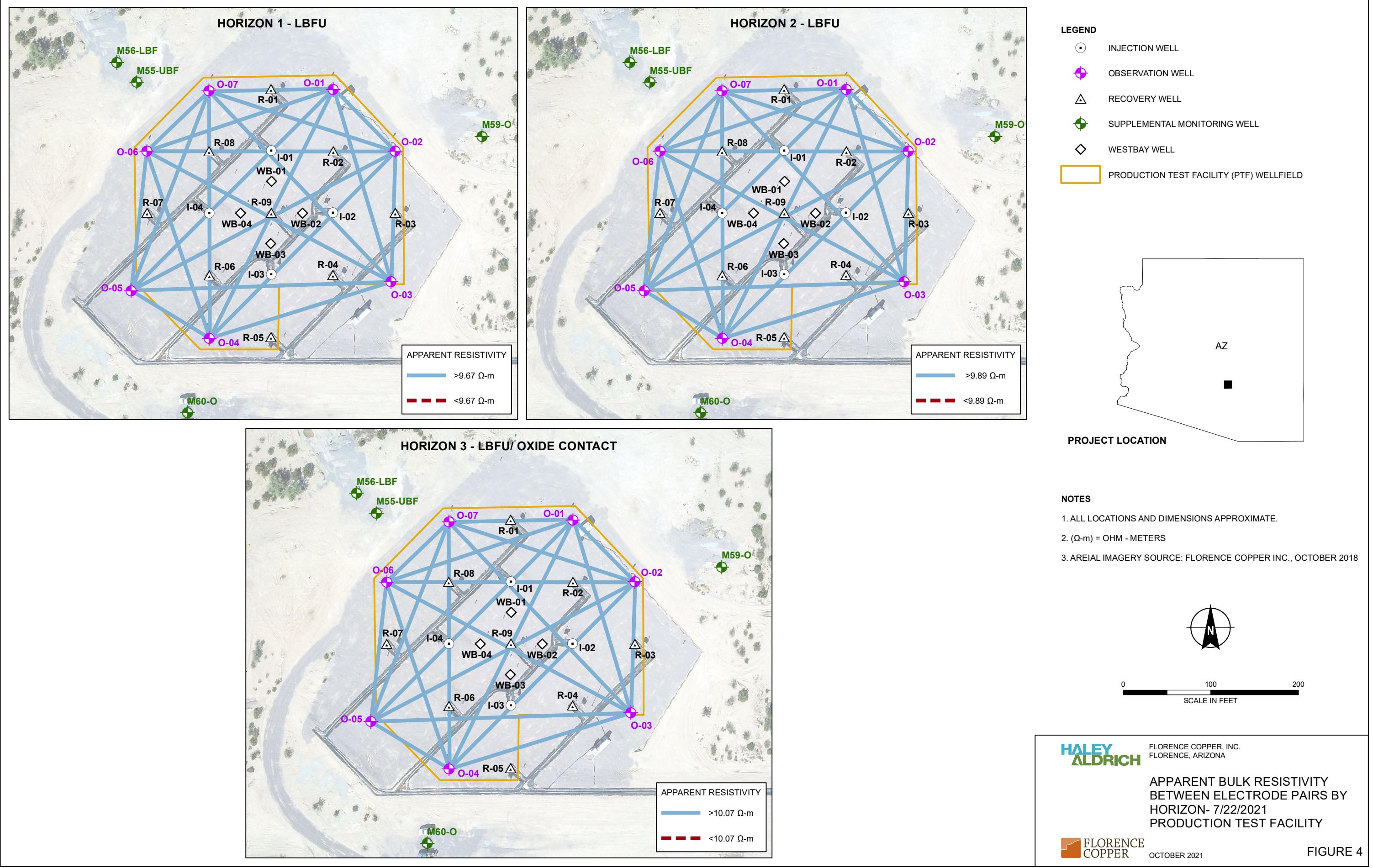
Horizon 3 Alert Level = 10.07 $\Omega\text{-m}$

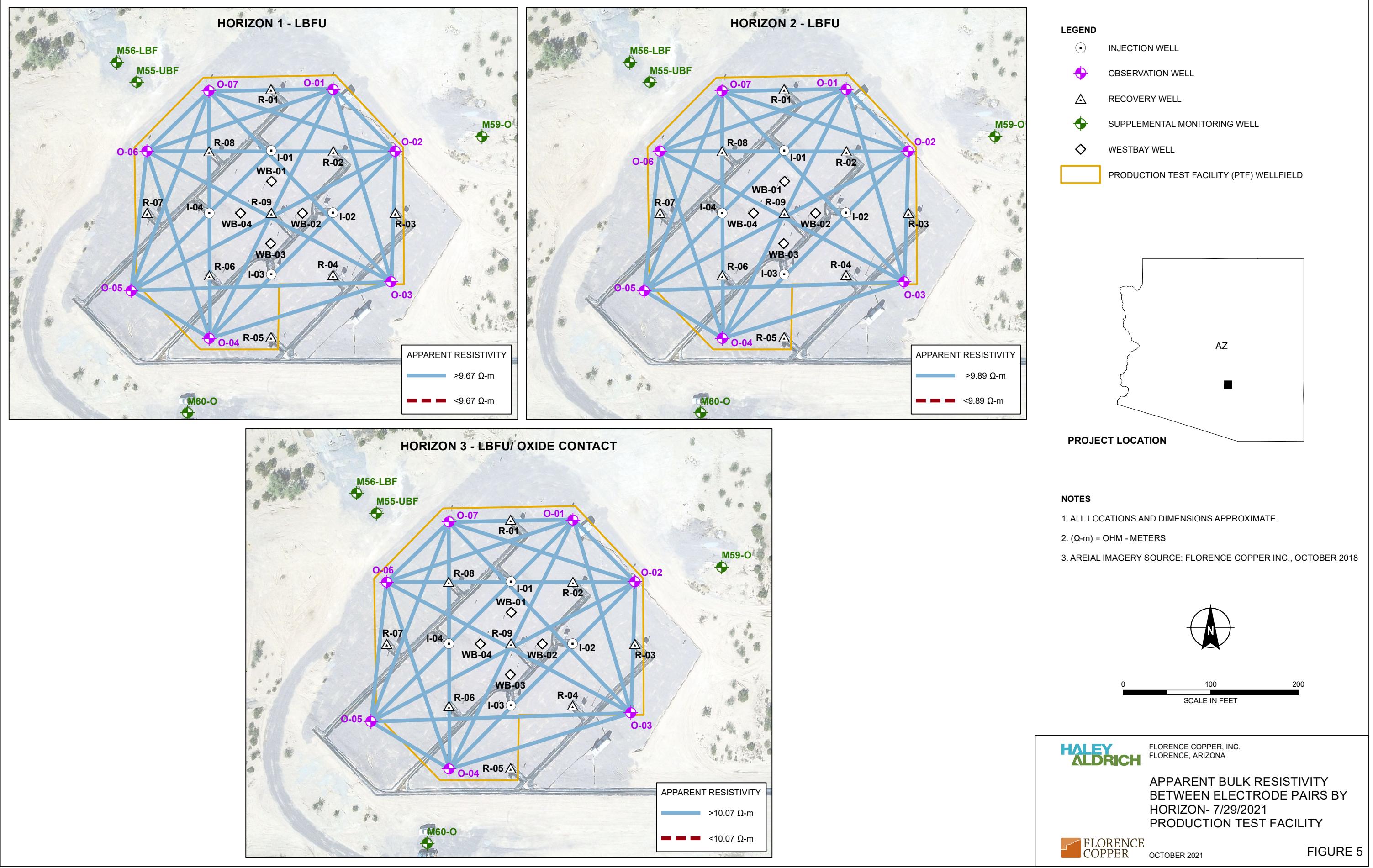
FIGURES

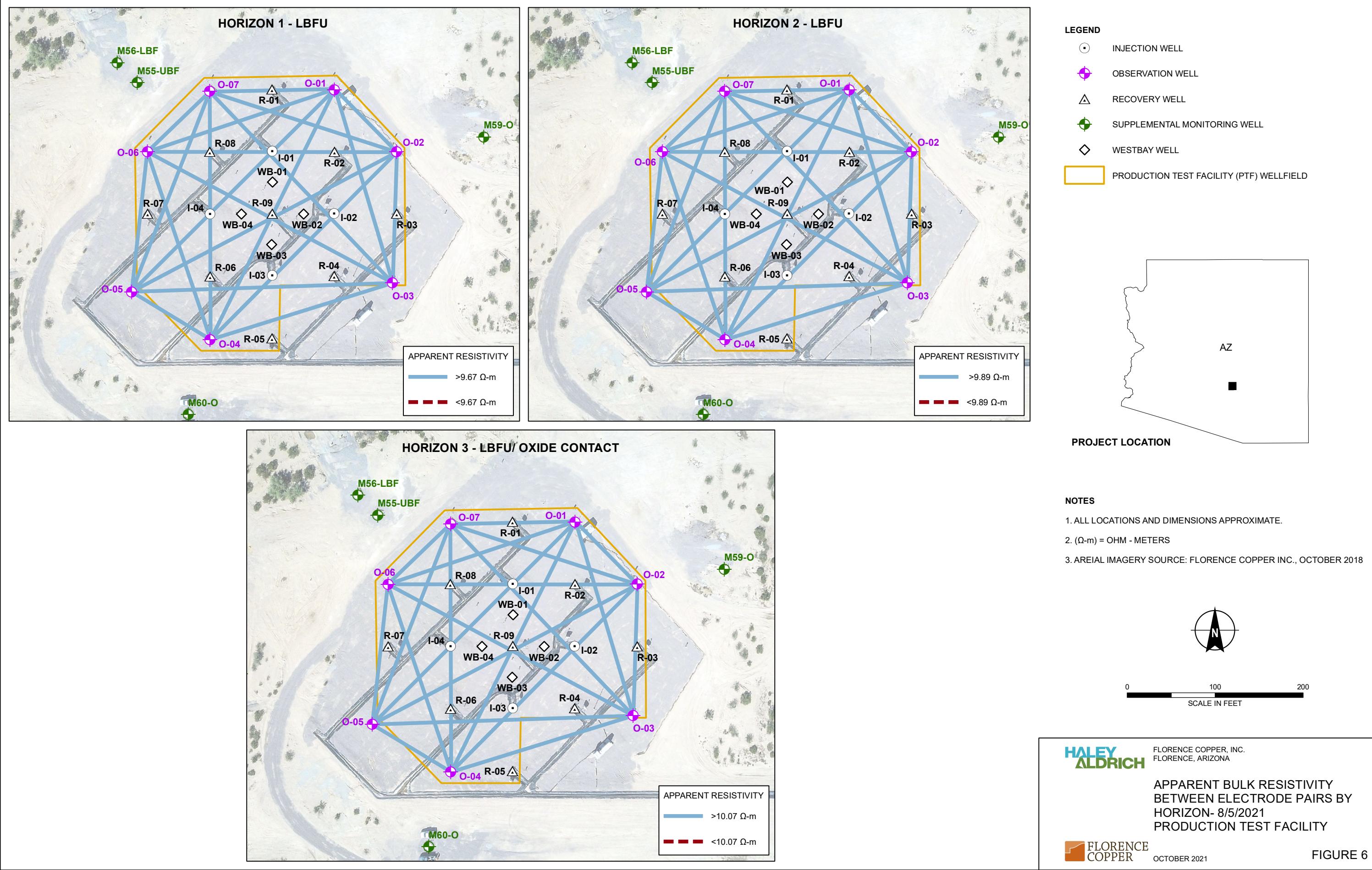


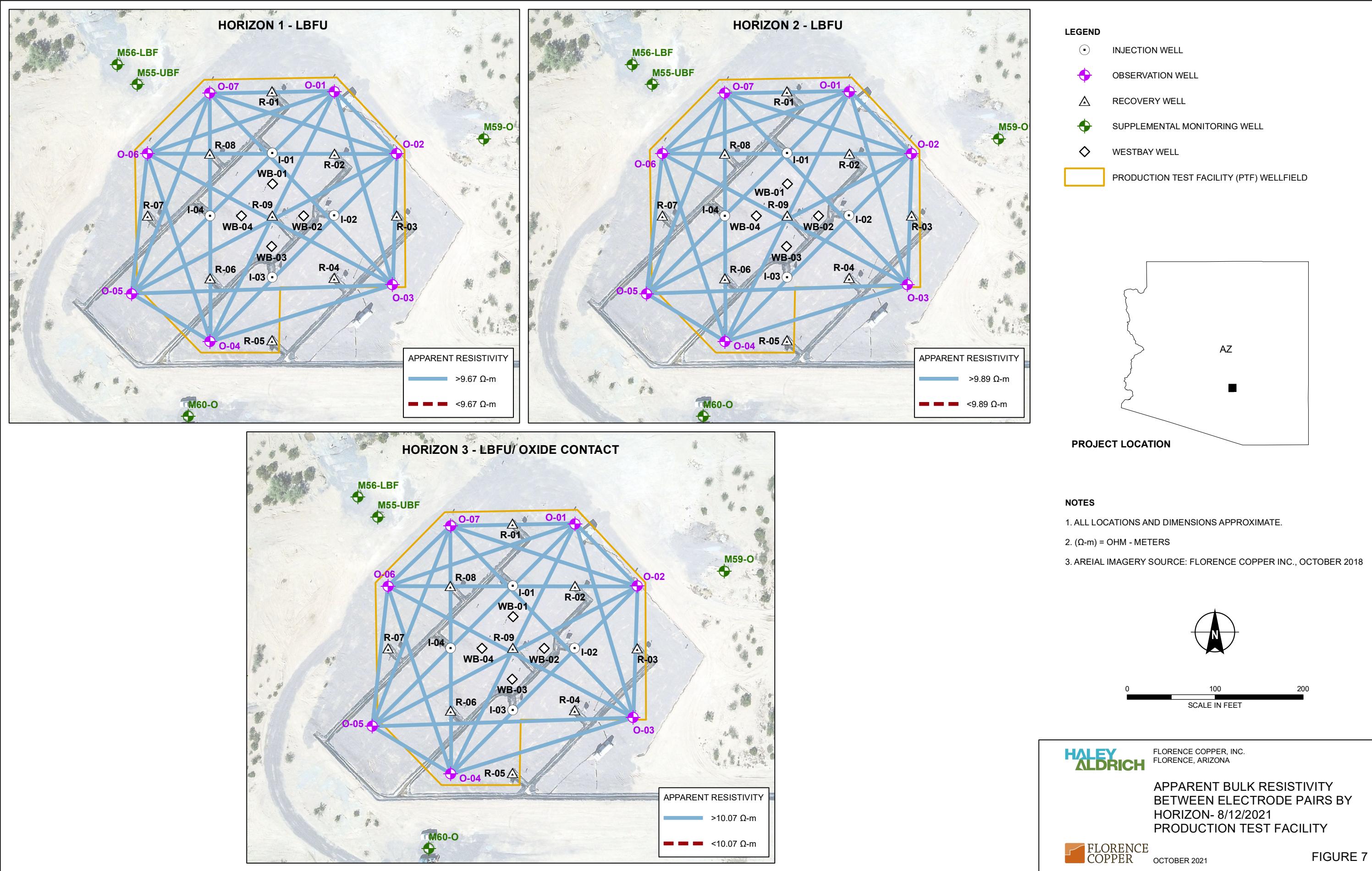


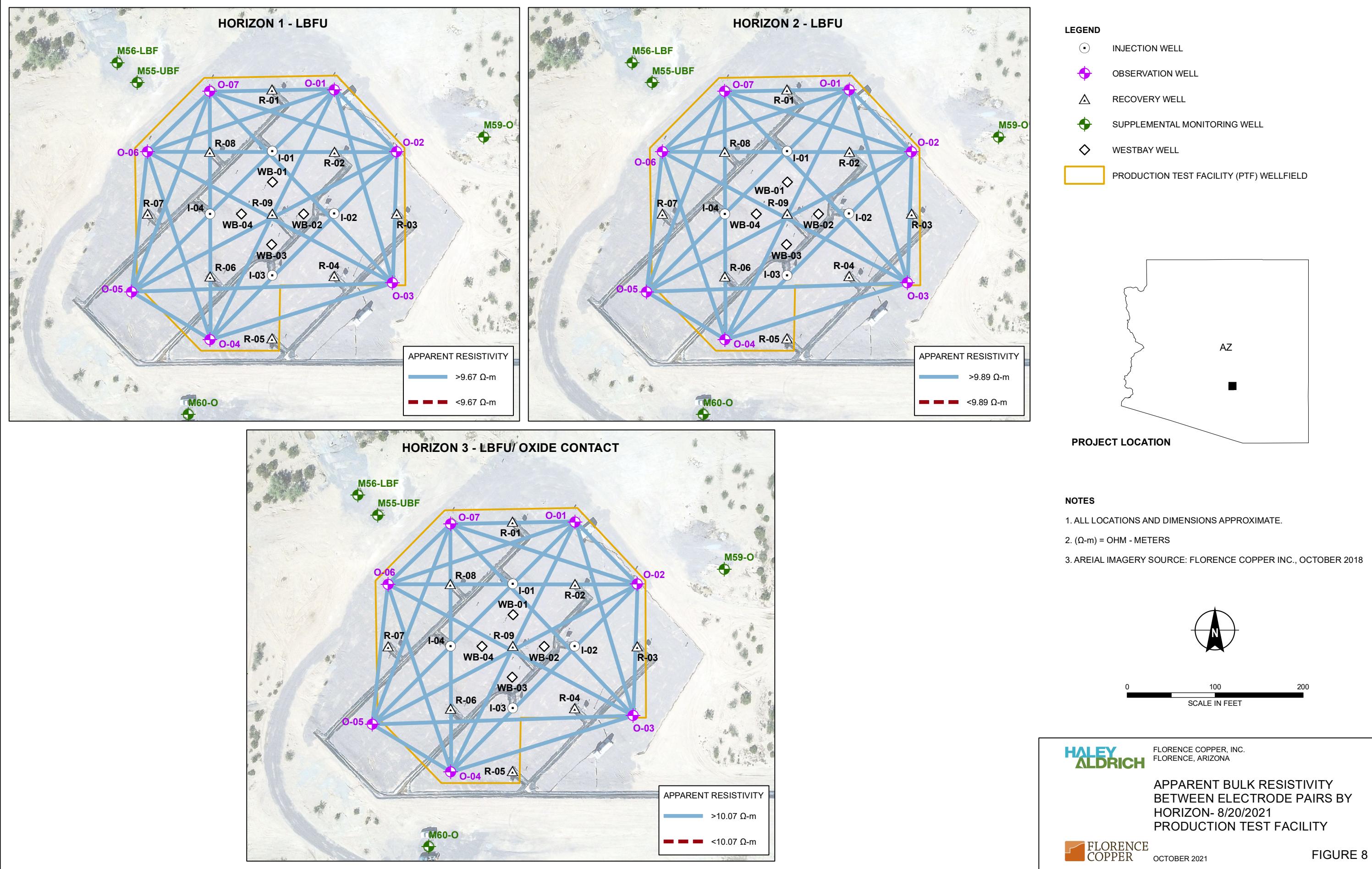


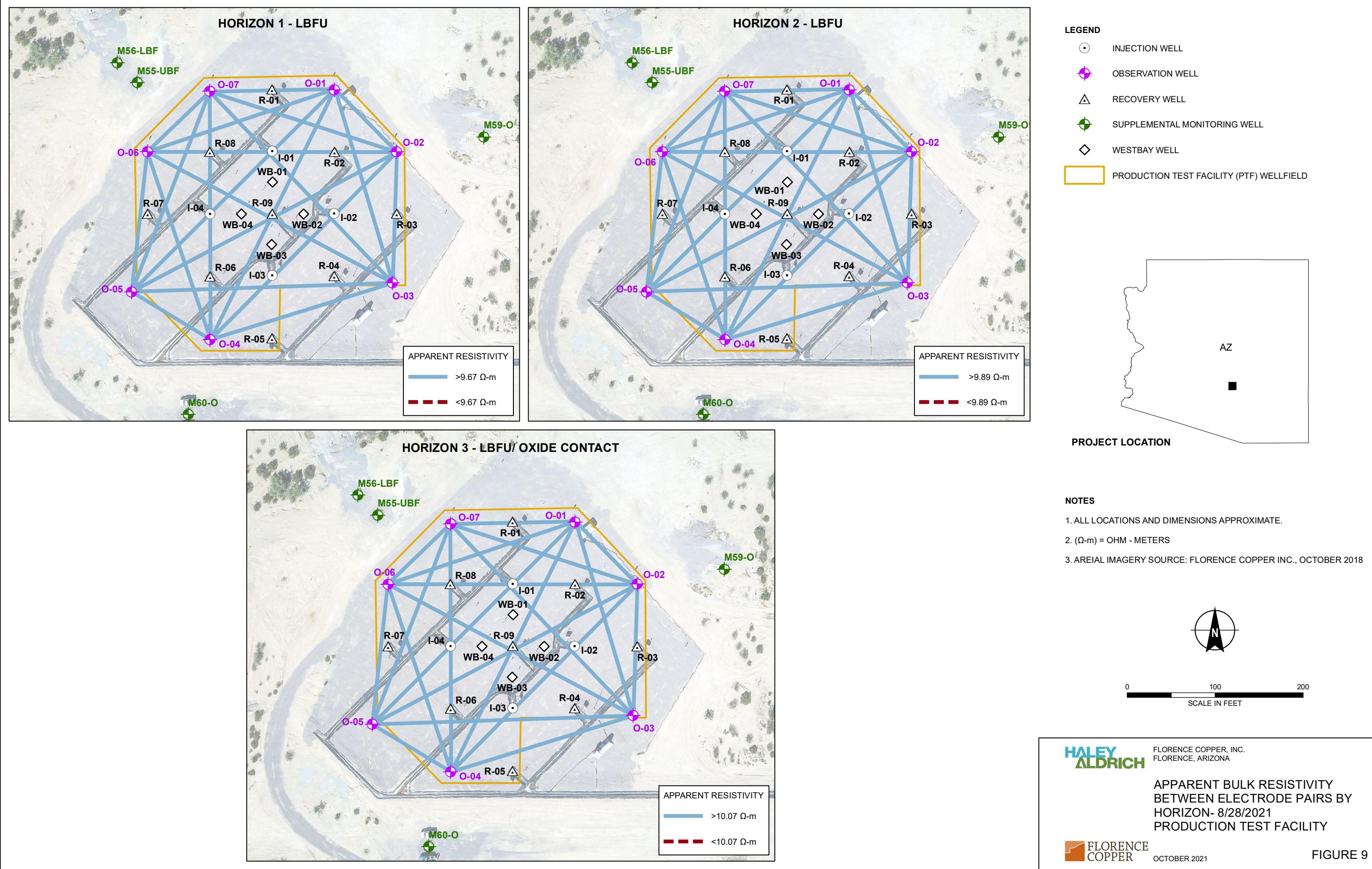


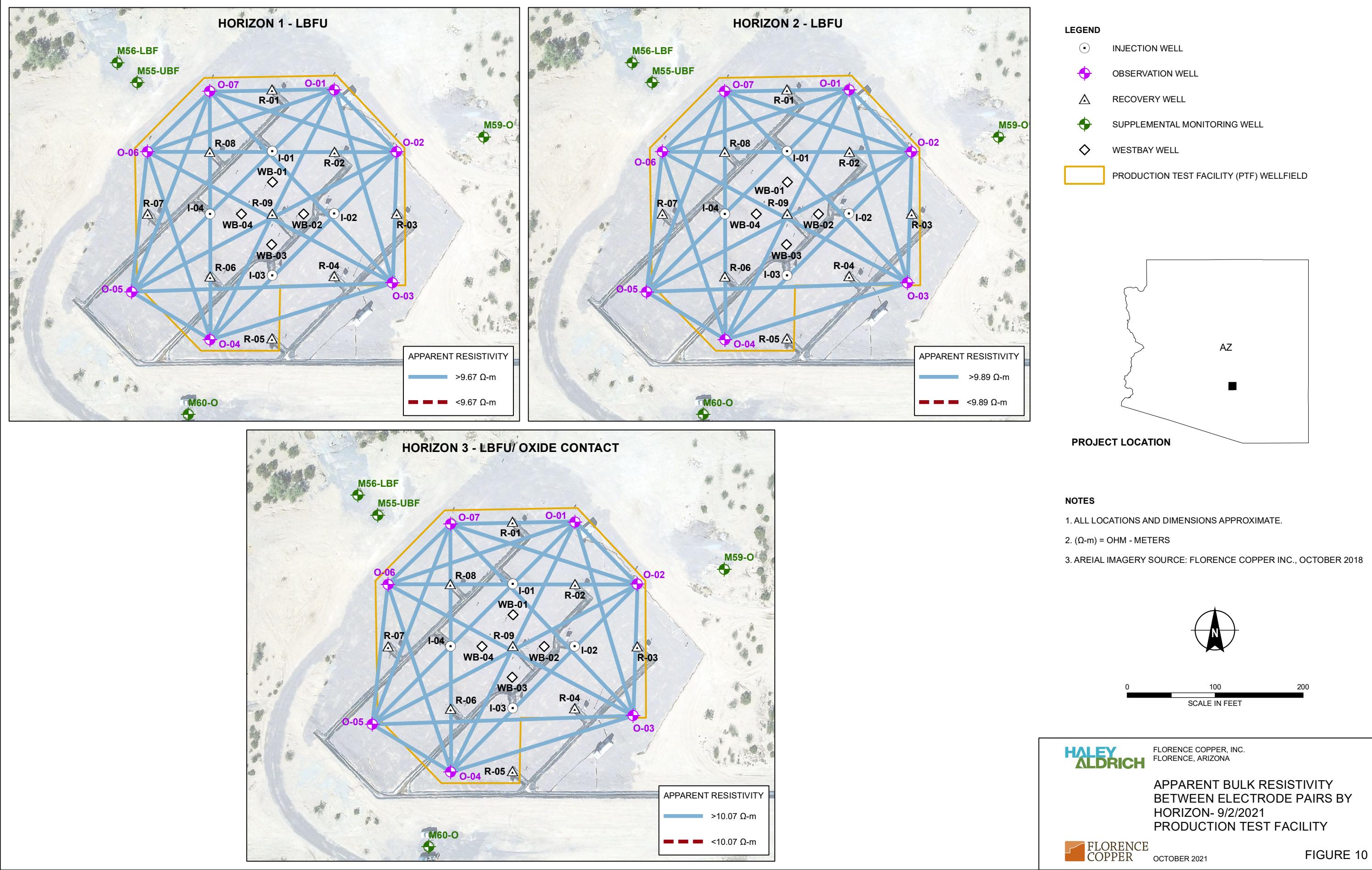


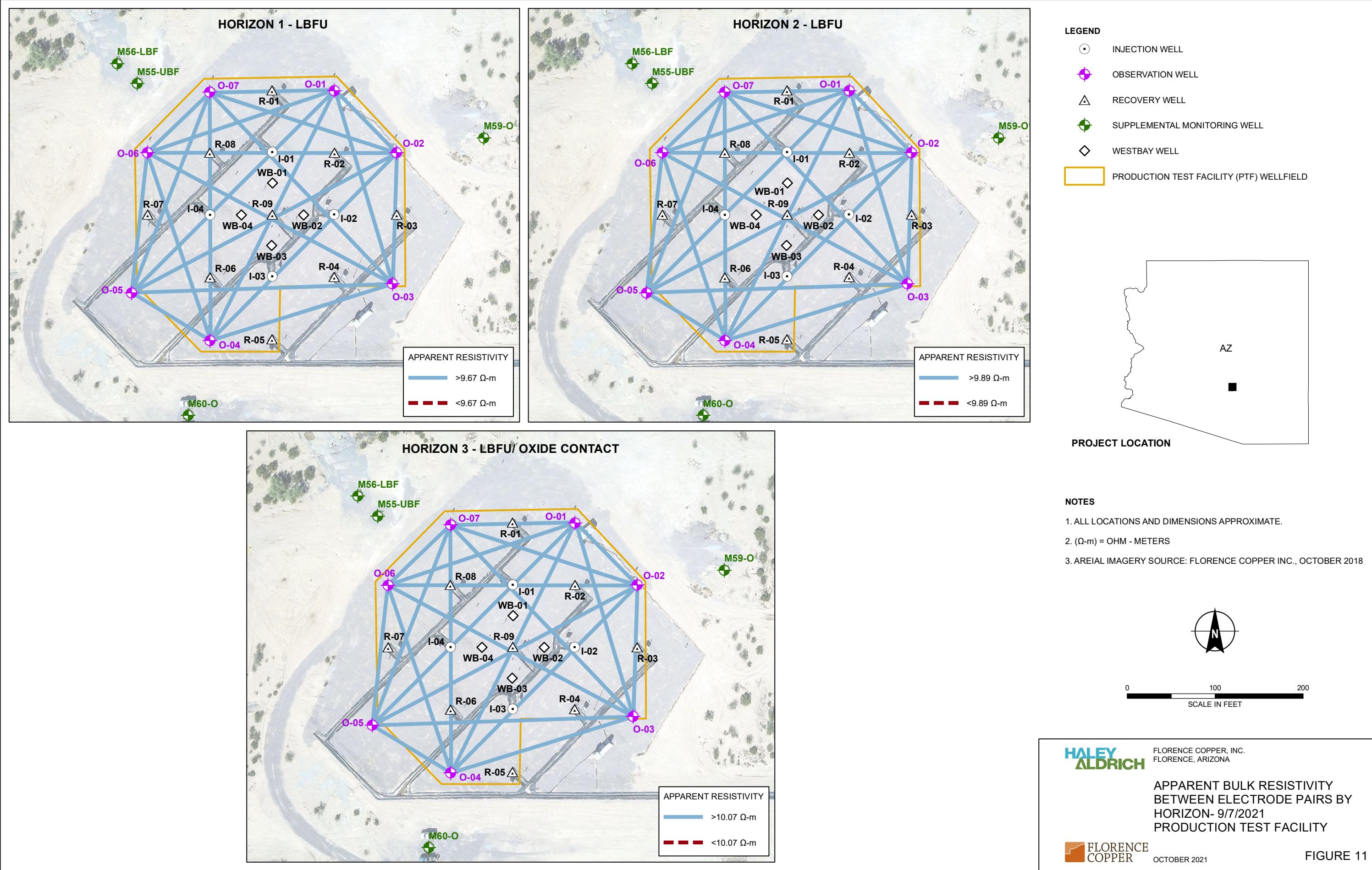


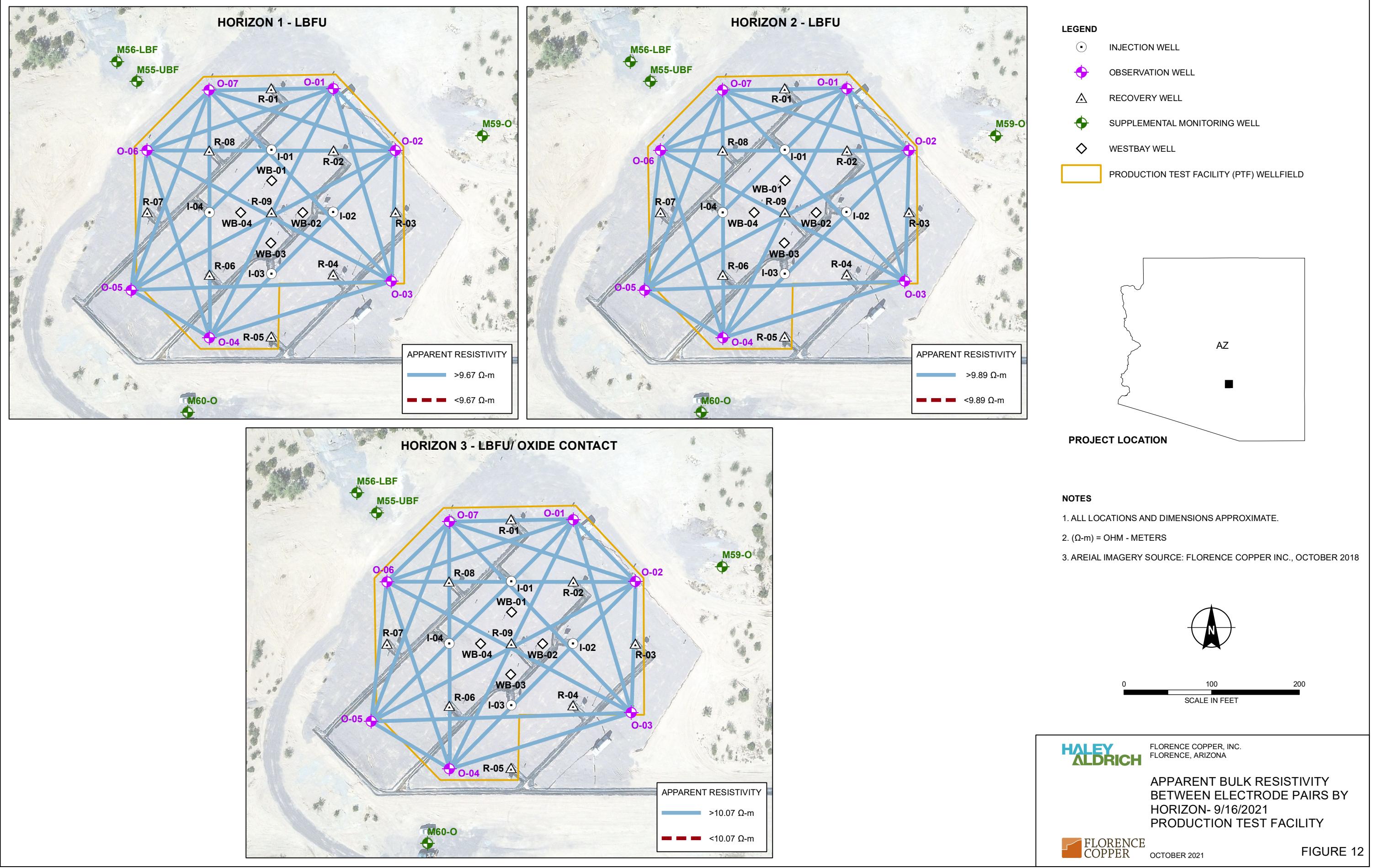


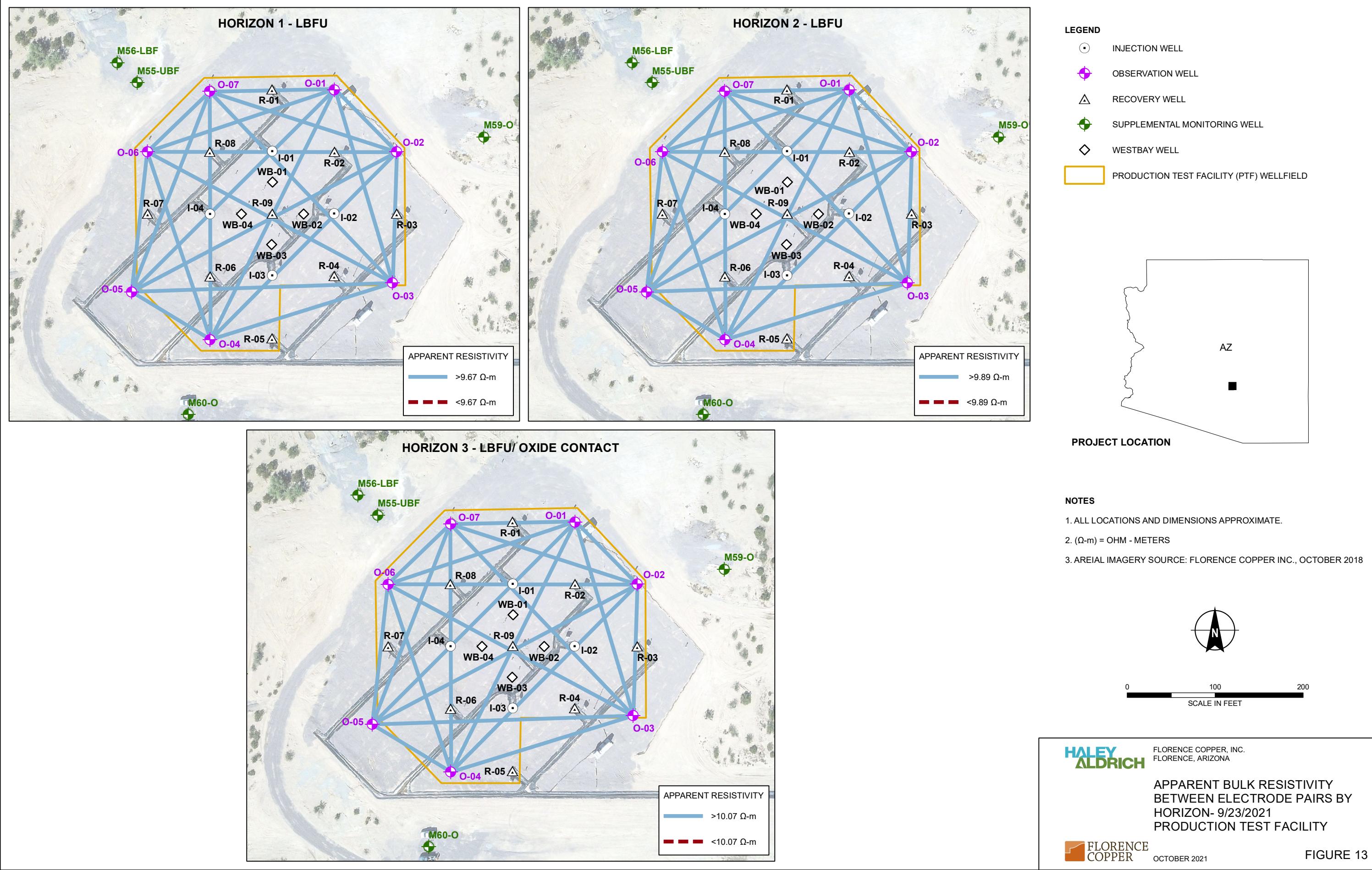


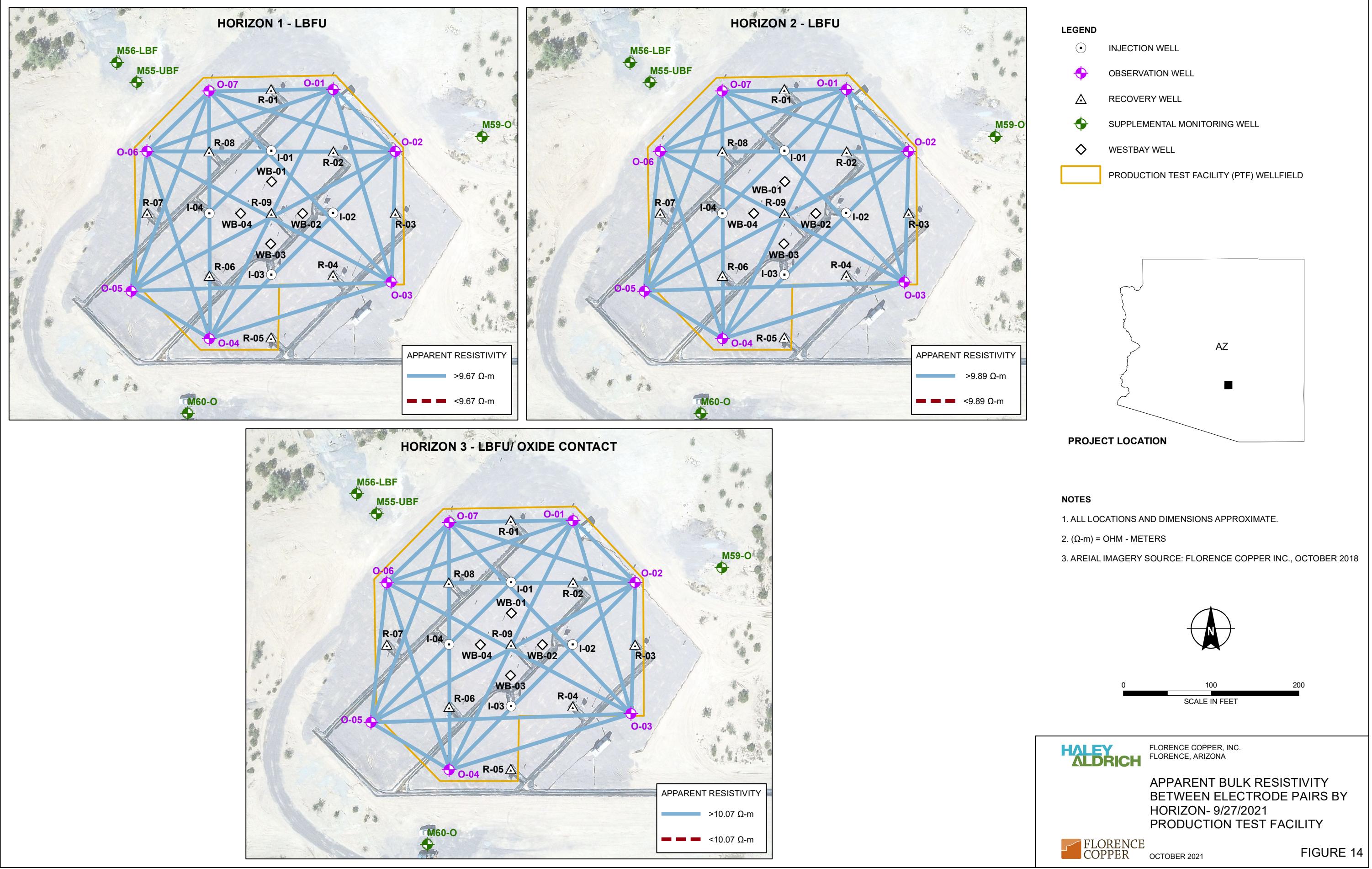










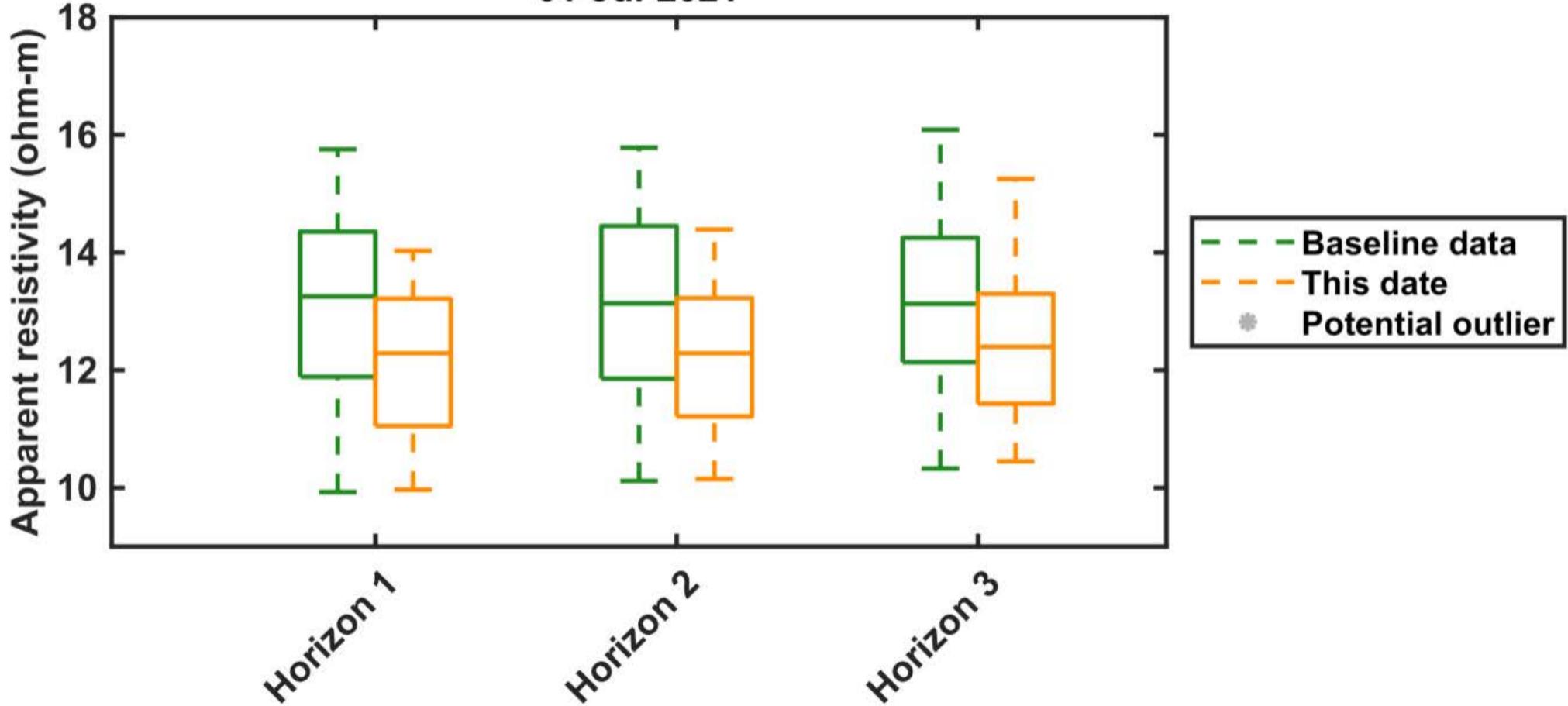


ATTACHMENT A

Box Diagrams for Third Quarter Monitoring Data

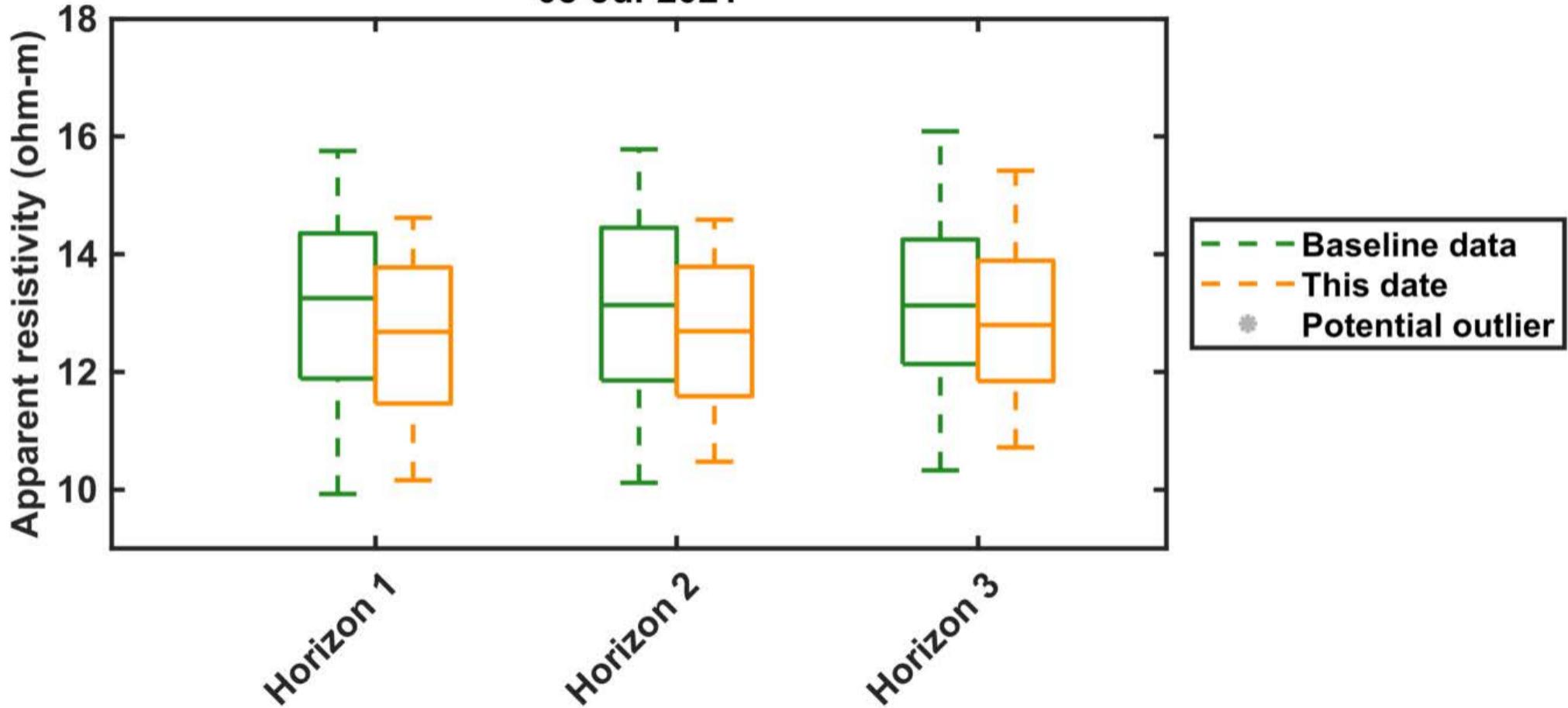
Florence electrical conductivity monitoring

01-Jul-2021



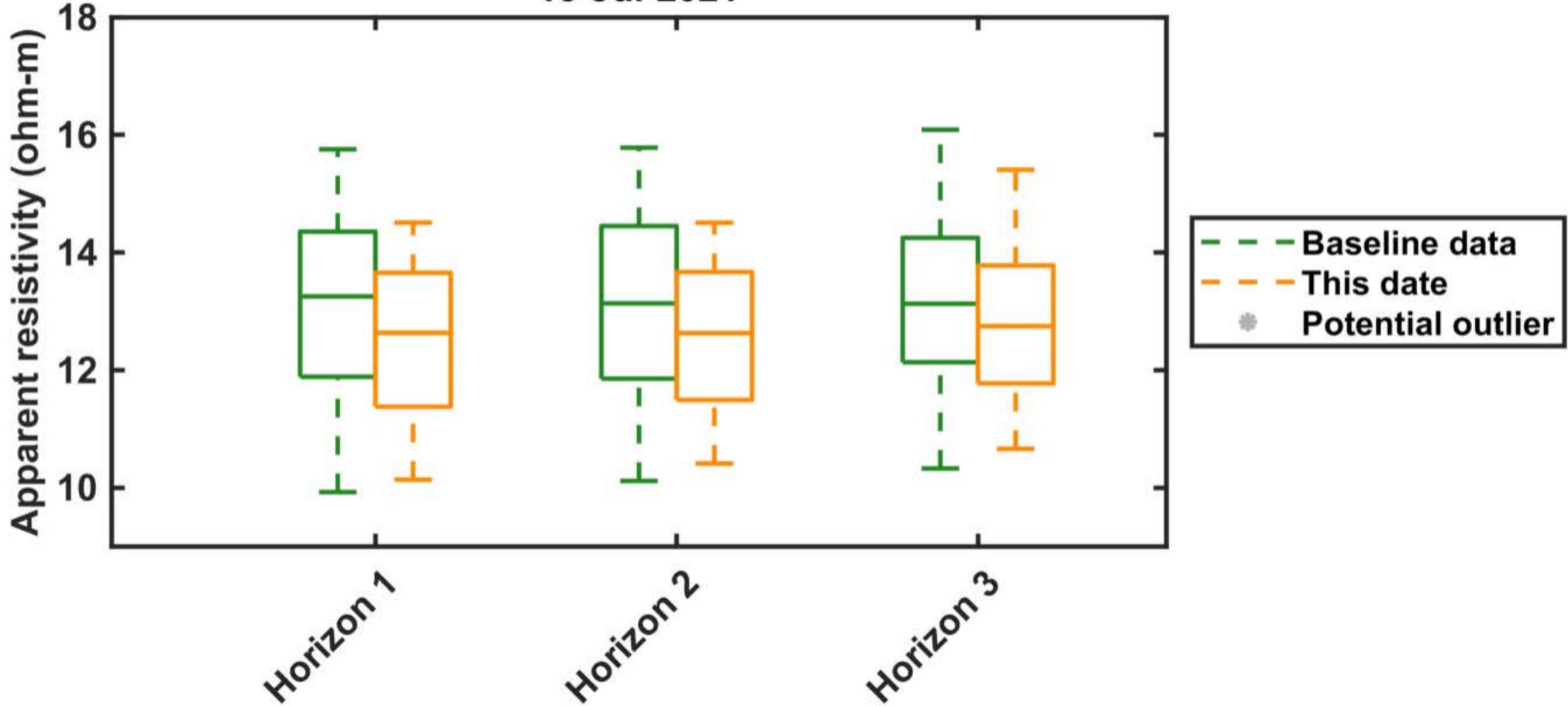
Florence electrical conductivity monitoring

08-Jul-2021



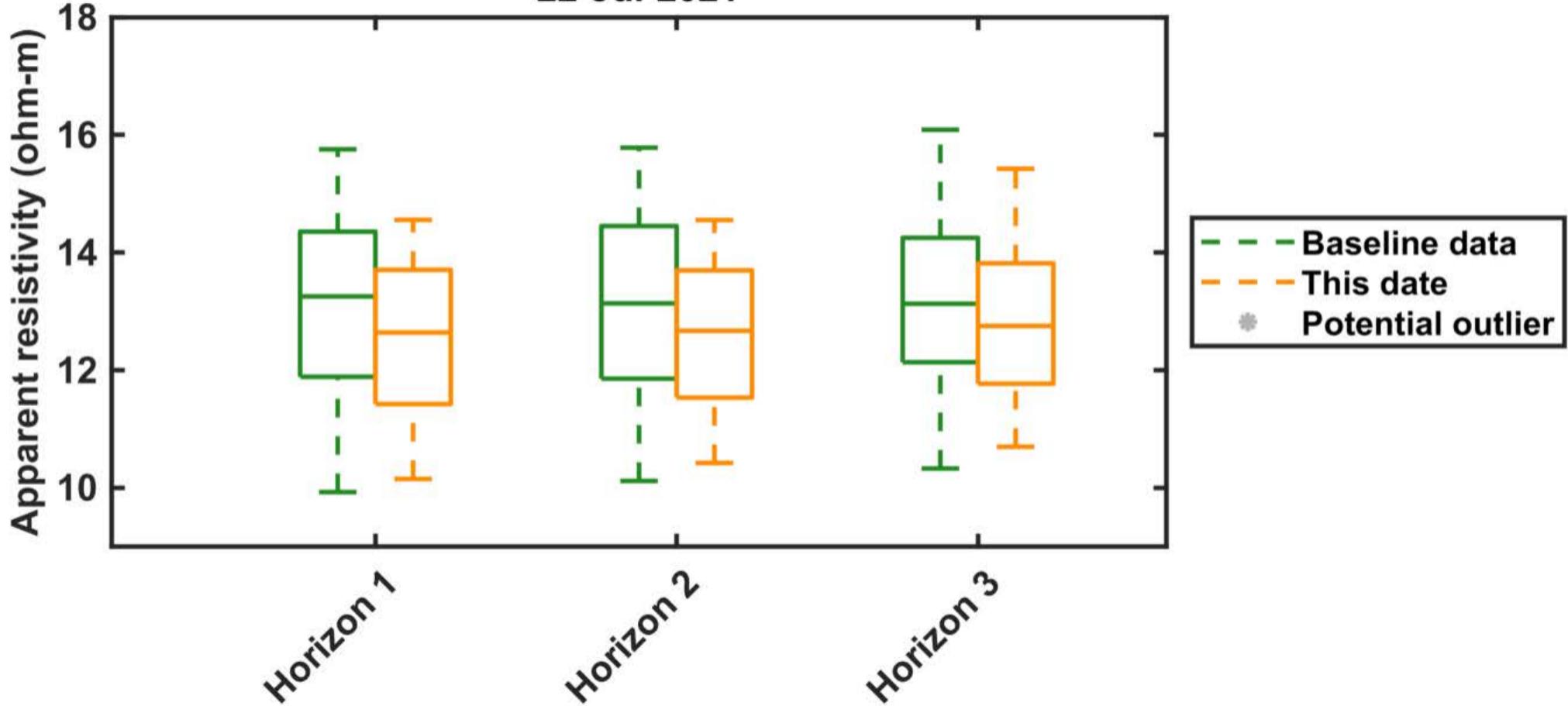
Florence electrical conductivity monitoring

15-Jul-2021



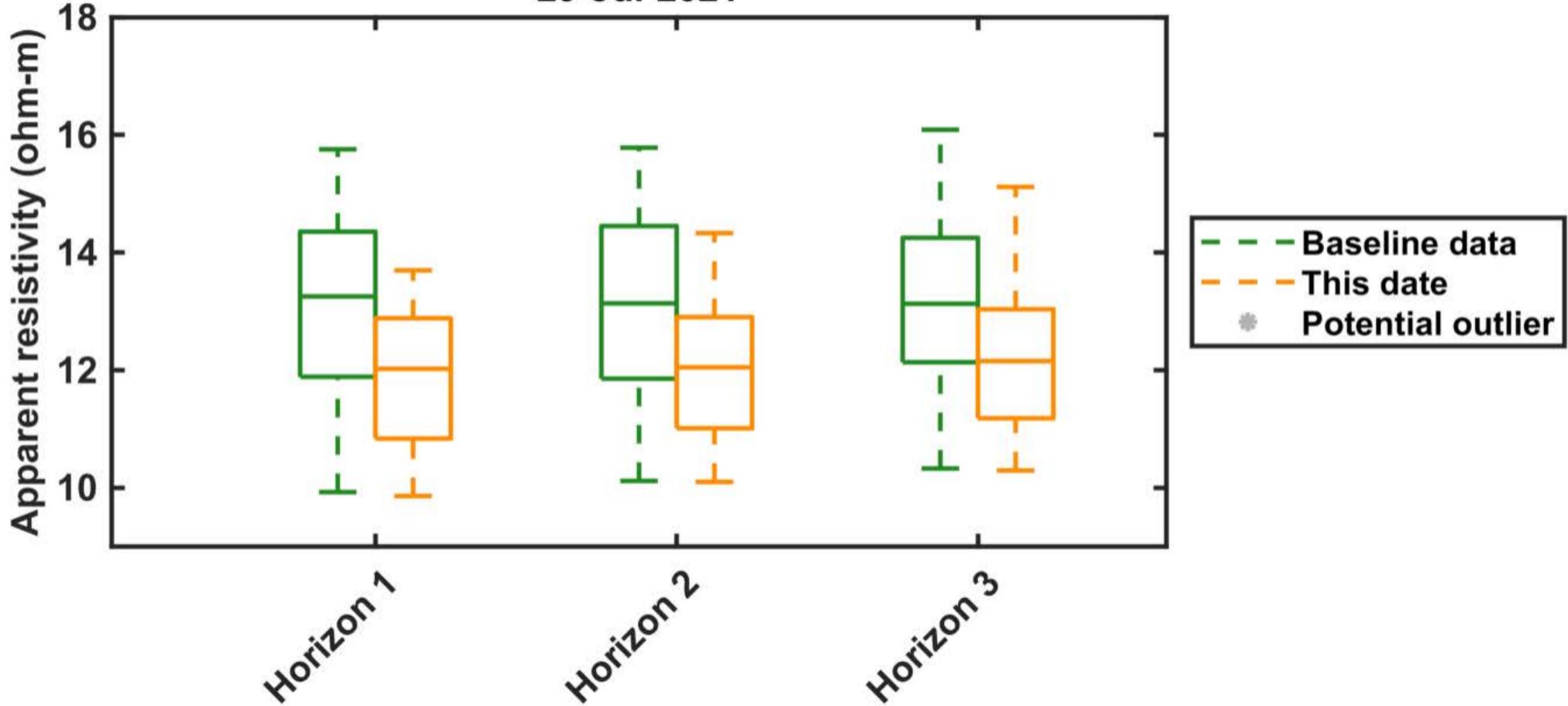
Florence electrical conductivity monitoring

22-Jul-2021



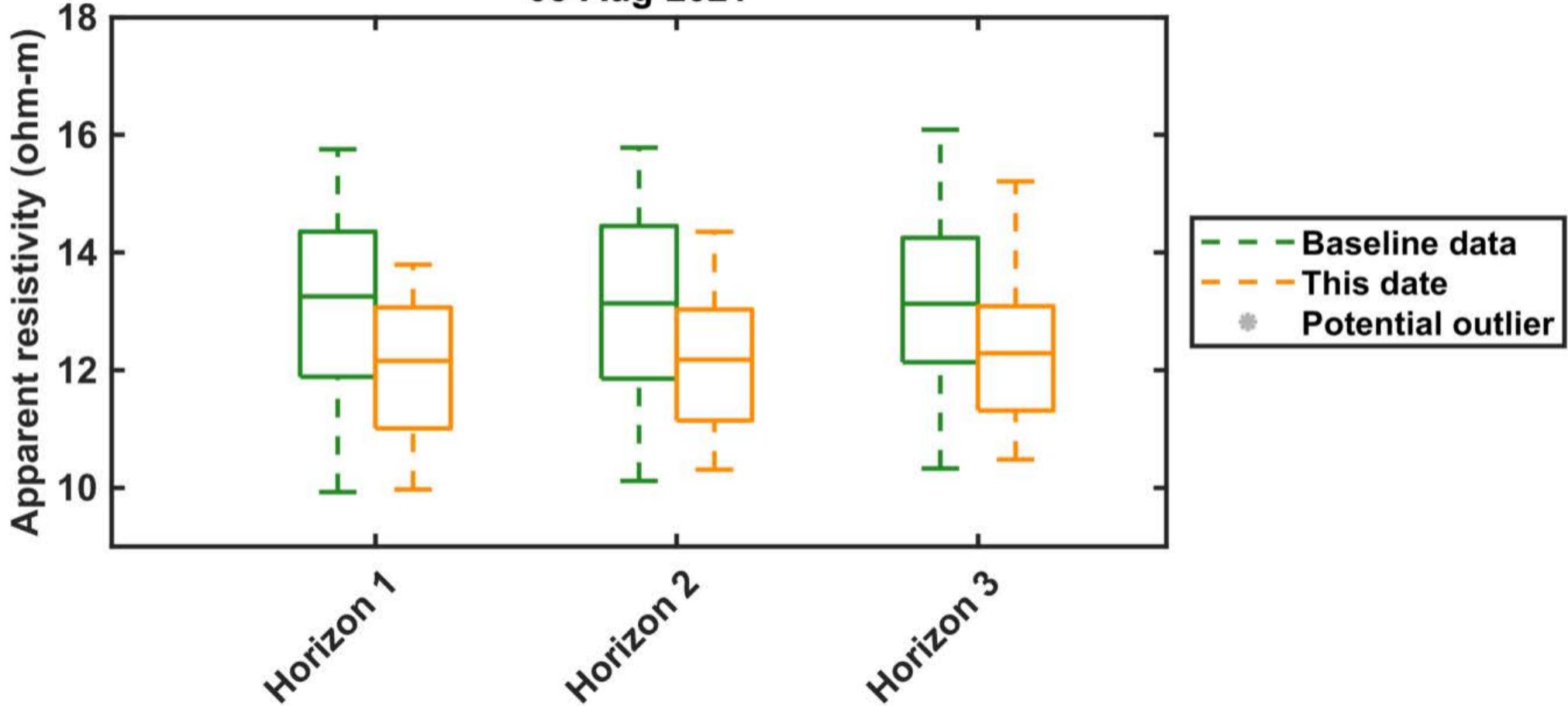
Florence electrical conductivity monitoring

29-Jul-2021



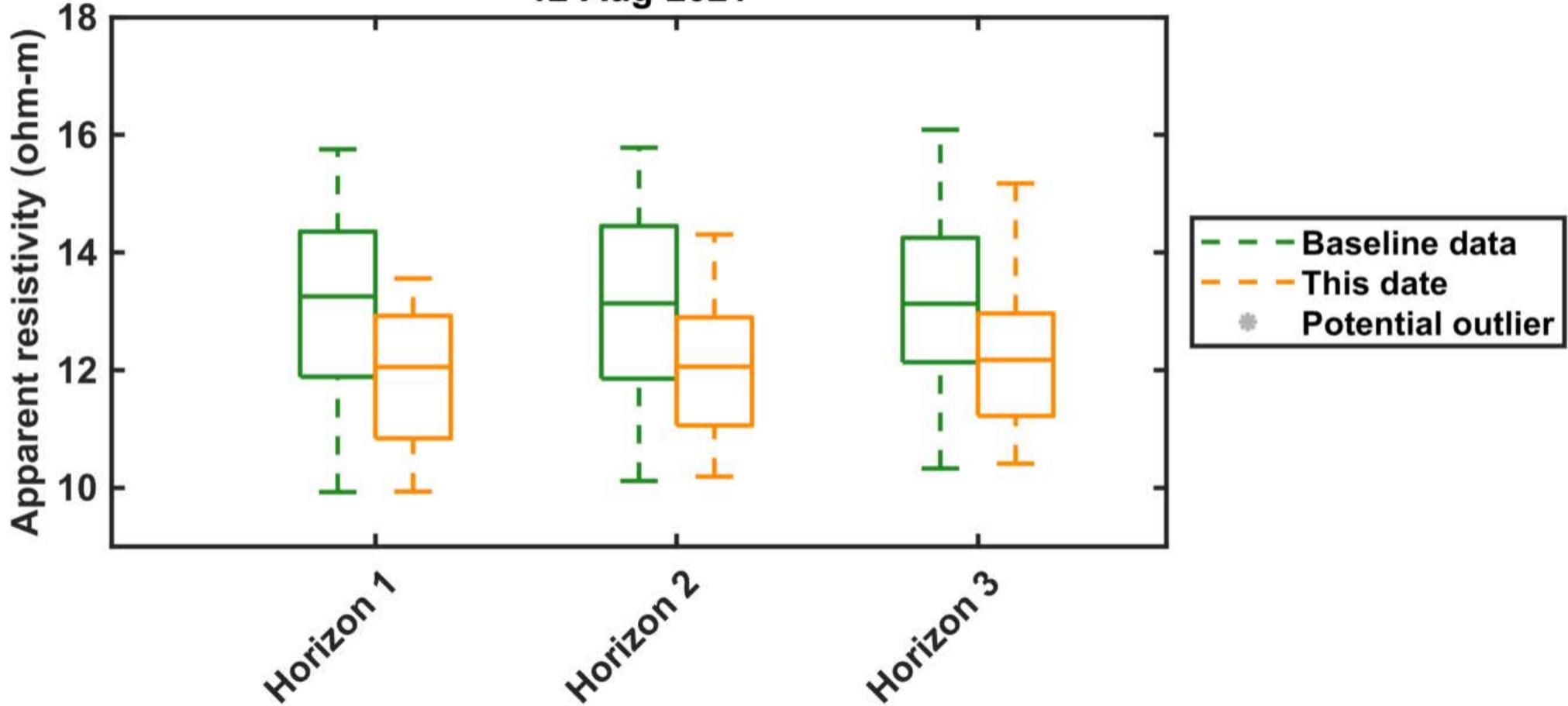
Florence electrical conductivity monitoring

05-Aug-2021



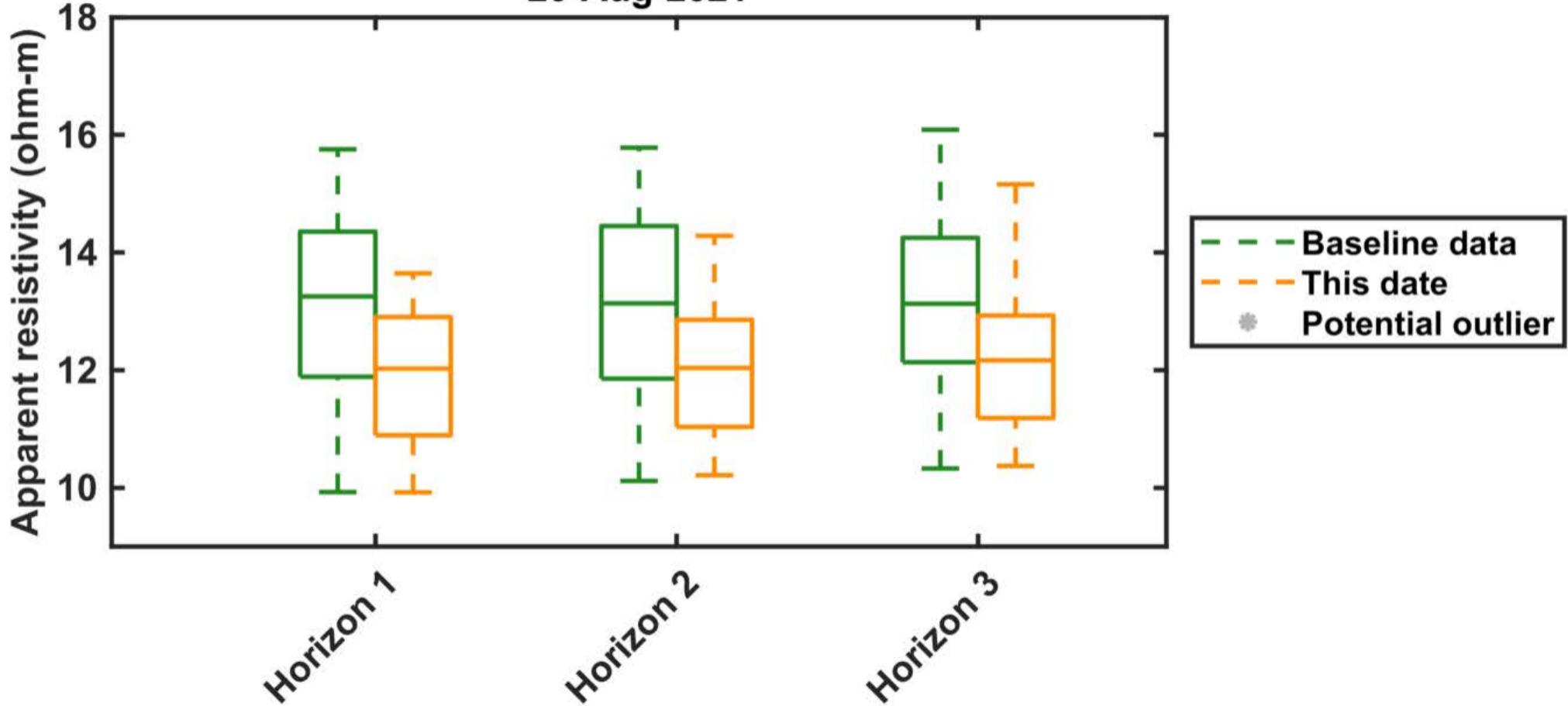
Florence electrical conductivity monitoring

12-Aug-2021



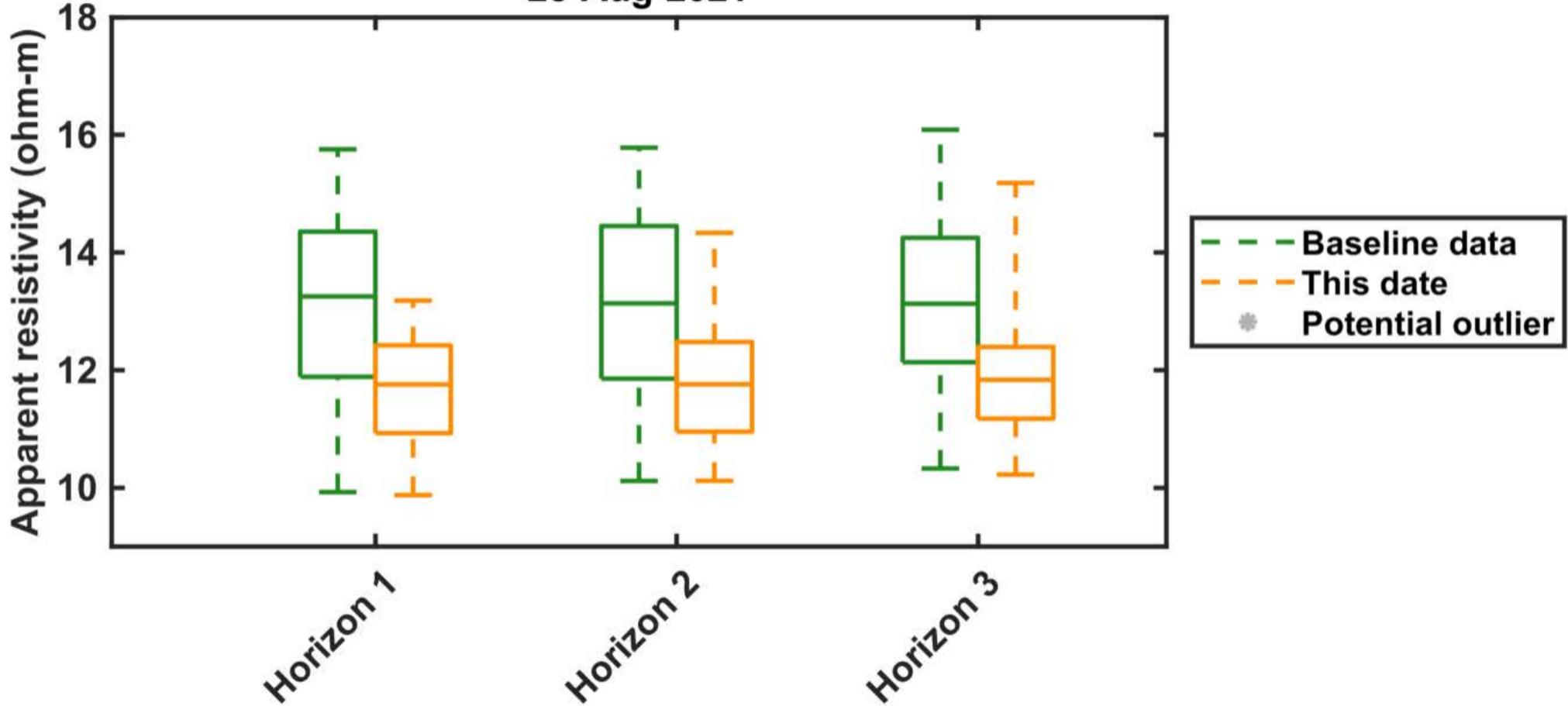
Florence electrical conductivity monitoring

20-Aug-2021



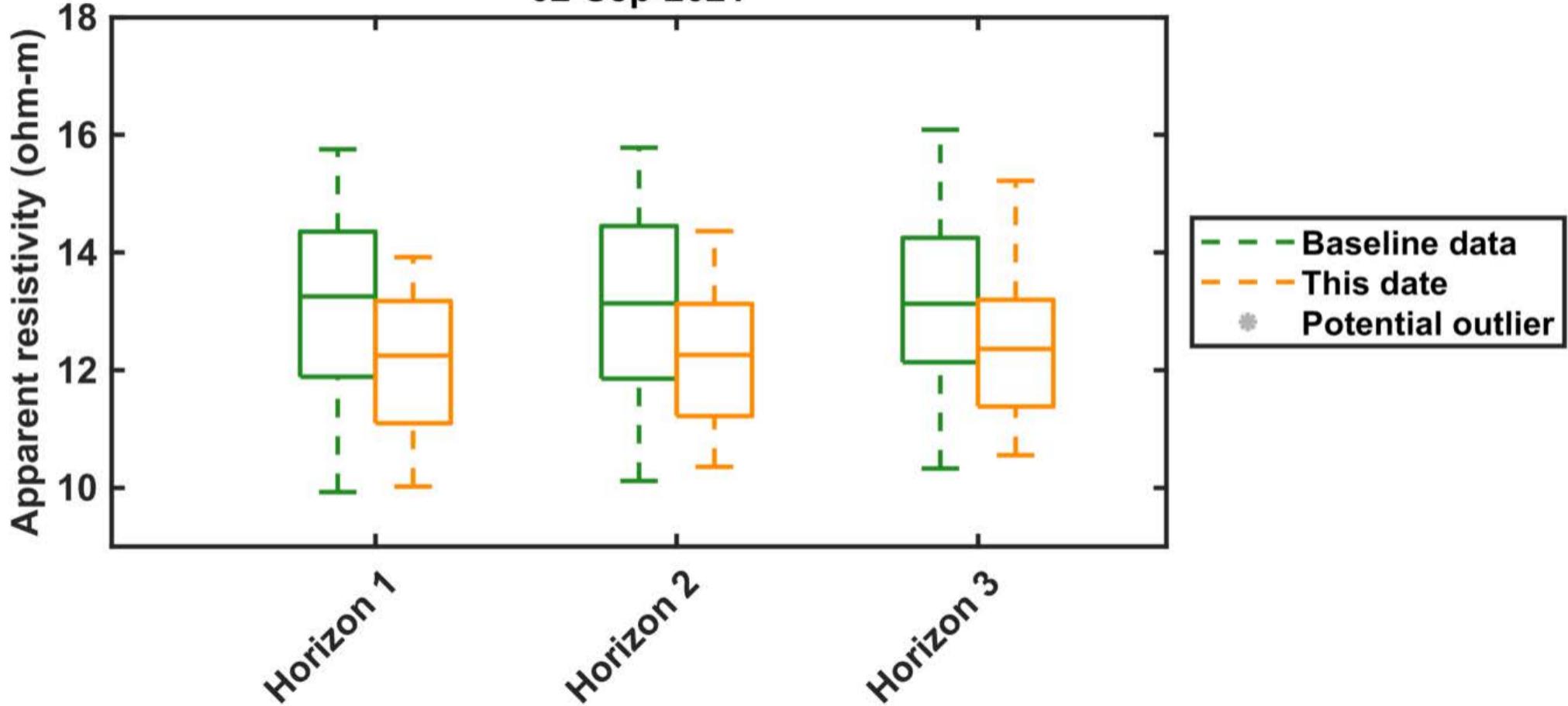
Florence electrical conductivity monitoring

28-Aug-2021



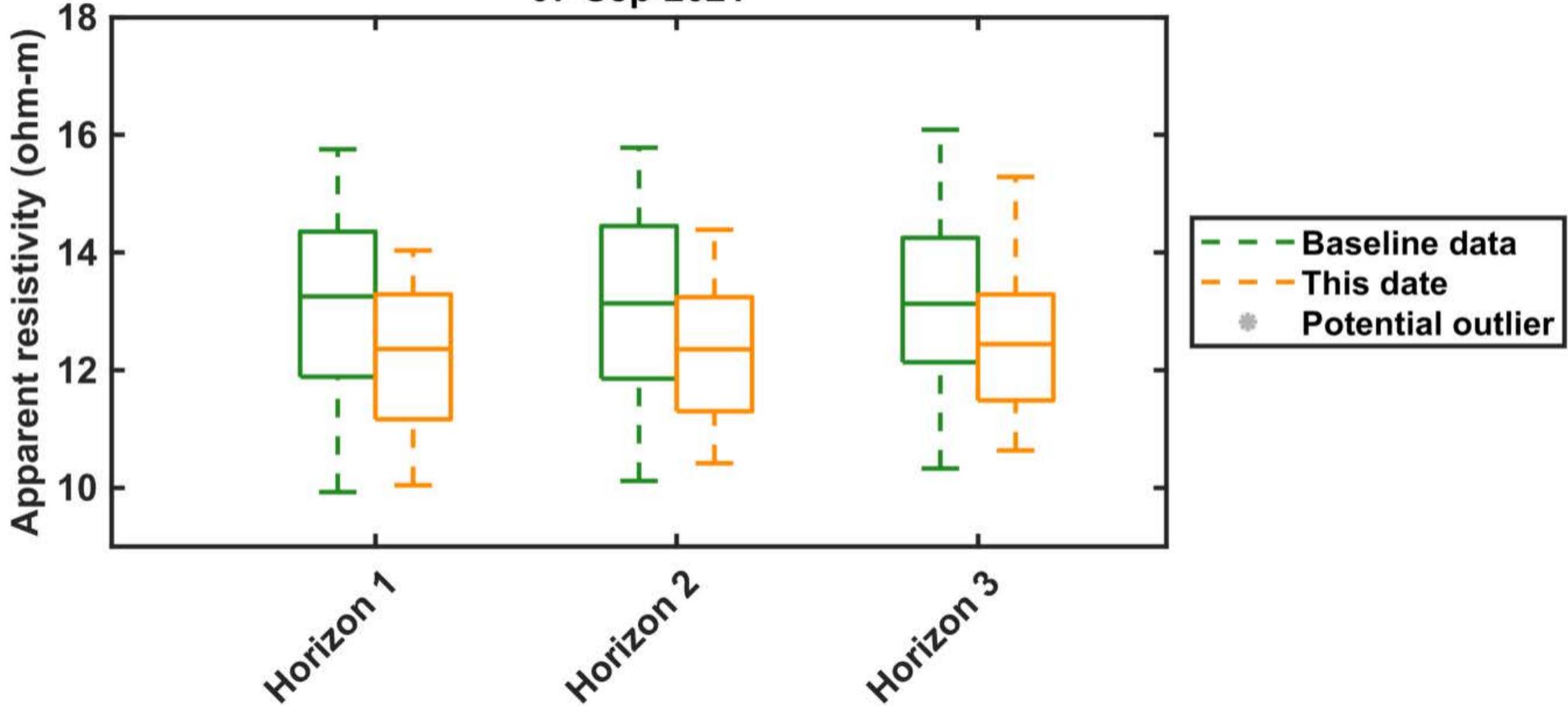
Florence electrical conductivity monitoring

02-Sep-2021



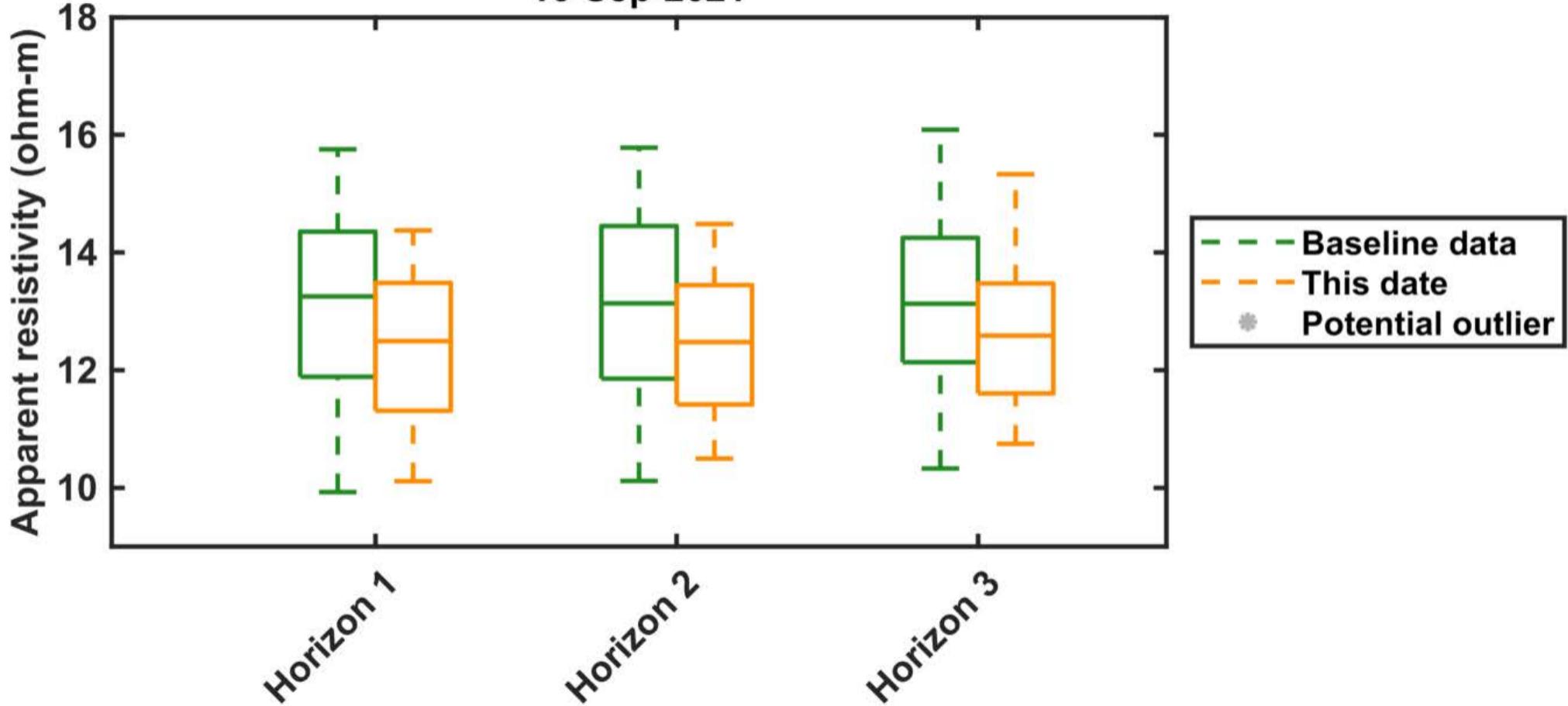
Florence electrical conductivity monitoring

07-Sep-2021



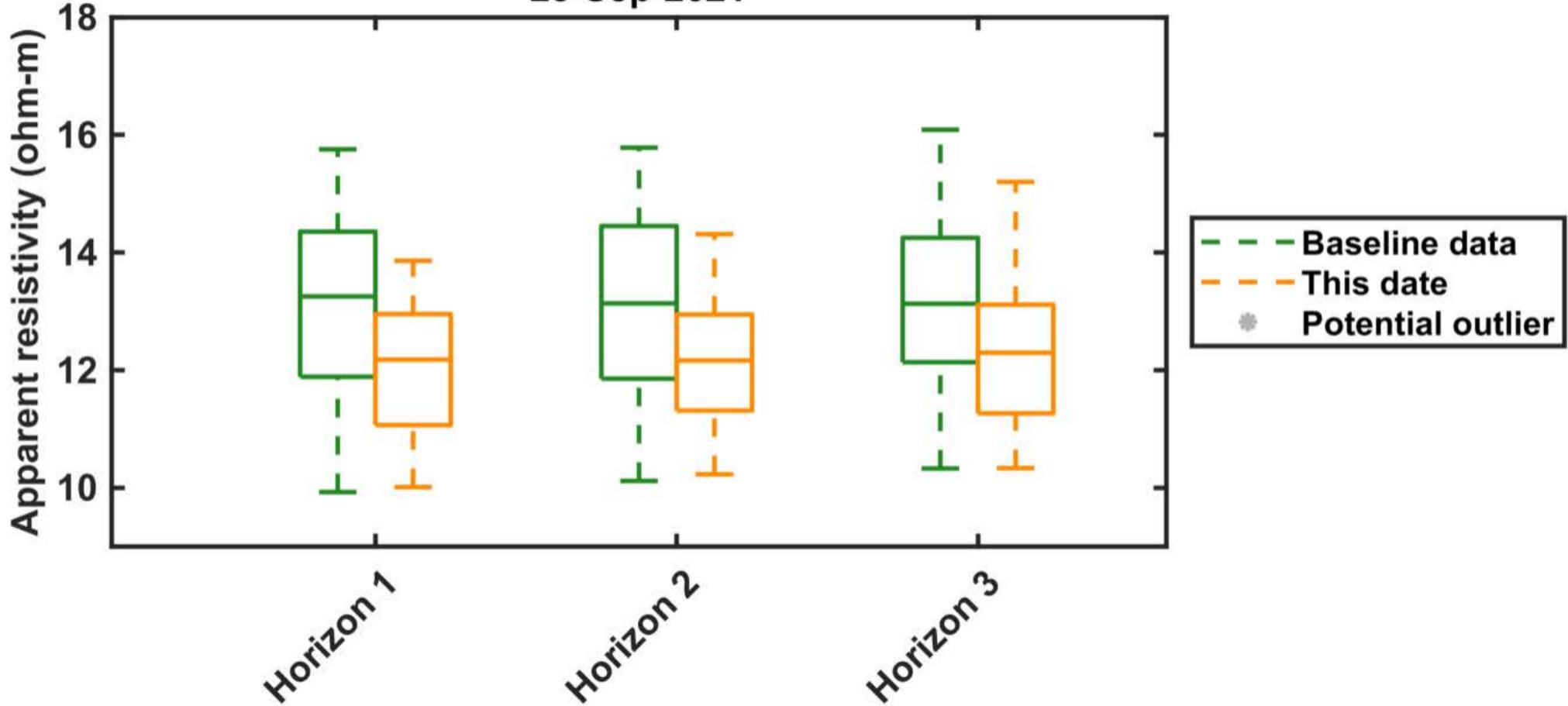
Florence electrical conductivity monitoring

16-Sep-2021



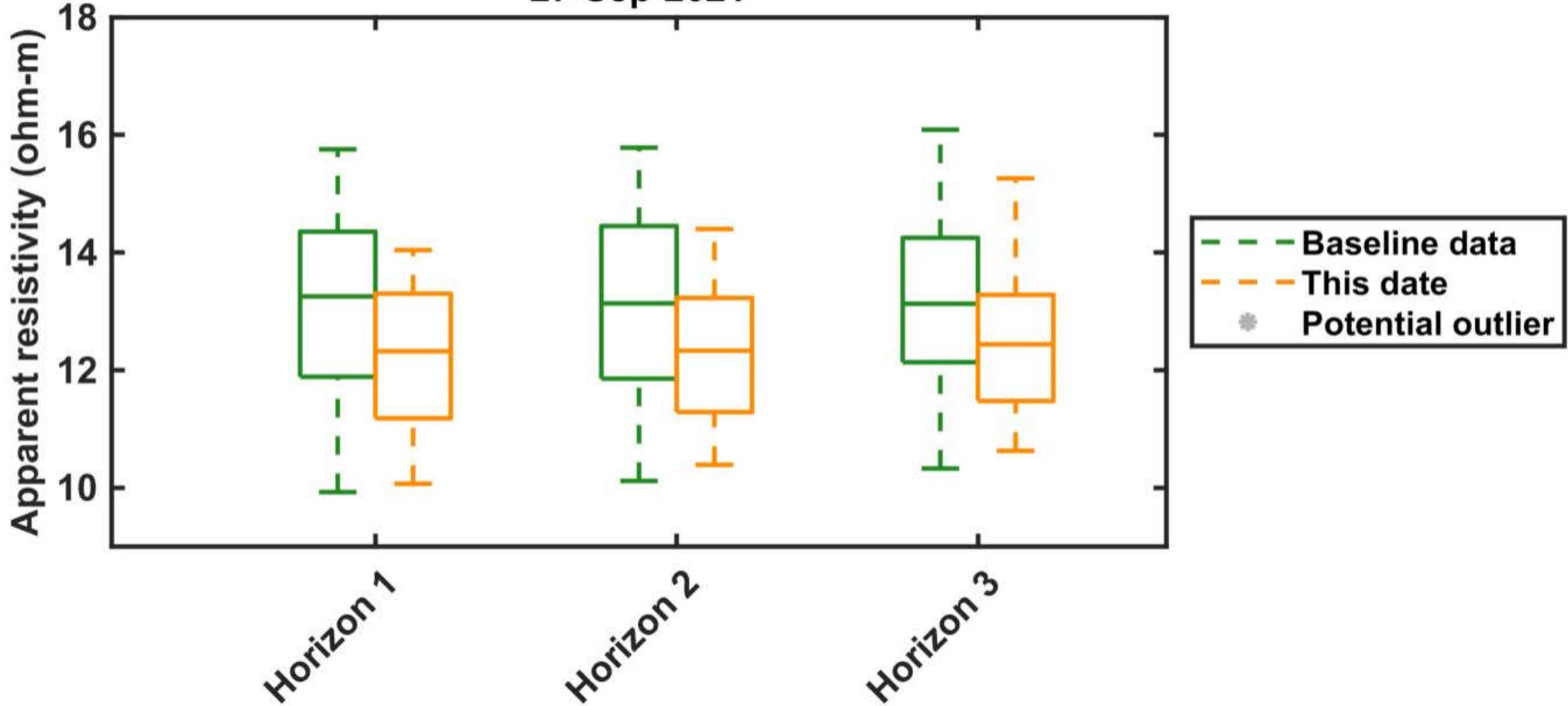
Florence electrical conductivity monitoring

23-Sep-2021



Florence electrical conductivity monitoring

27-Sep-2021

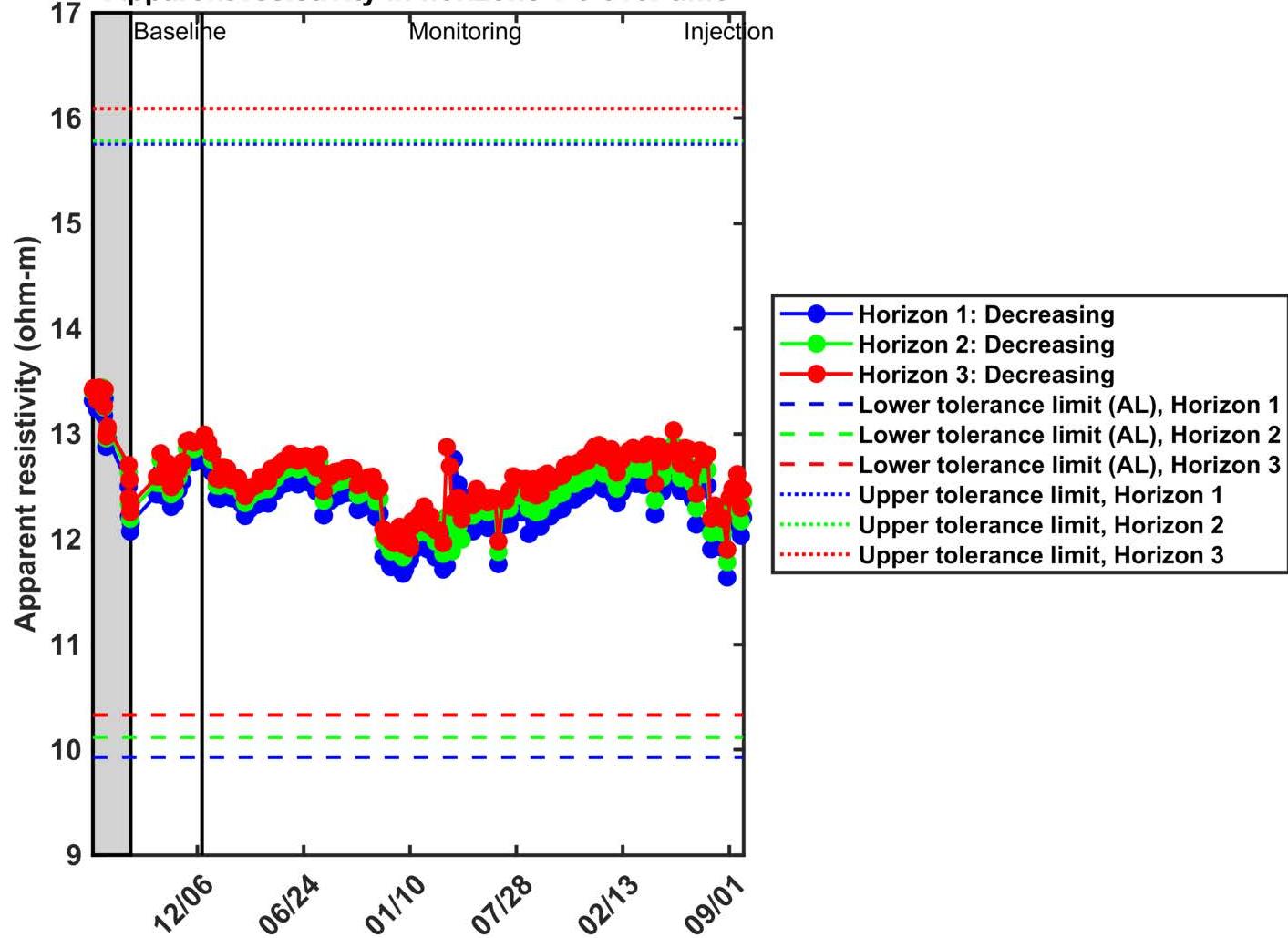


ATTACHMENT B

Summary Plot of Bulk Electrical Conductivity

Florence ambient electrical conductivity monitoring

Apparent resistivity in horizons 1-3 over time



ATTACHMENT 6

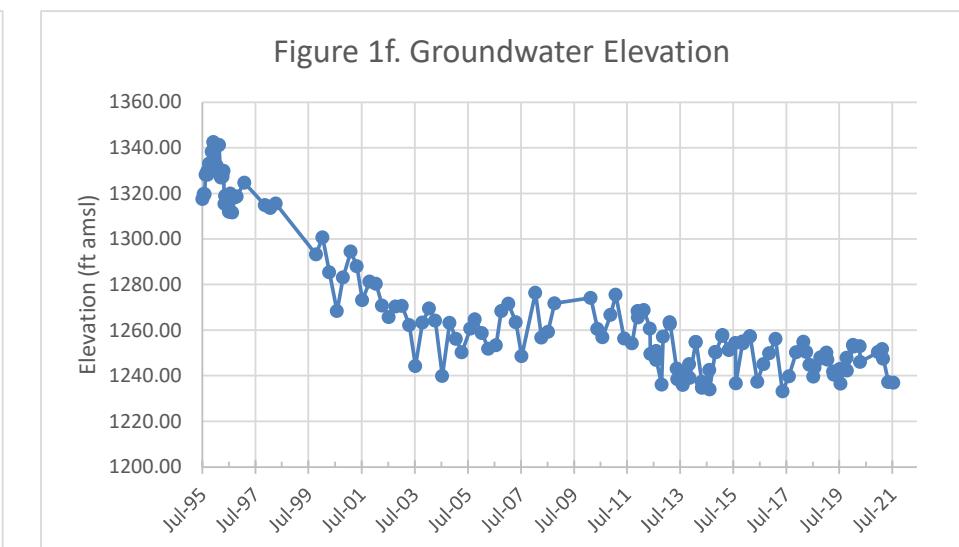
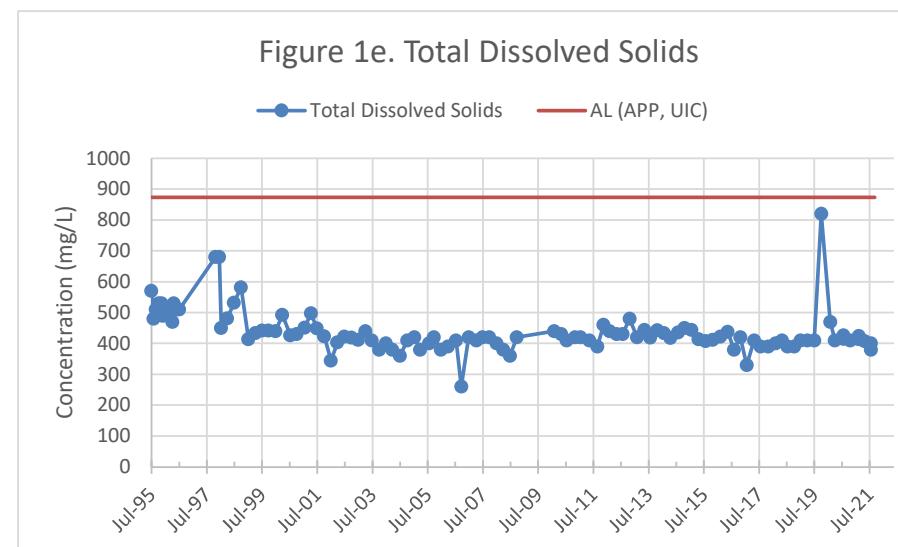
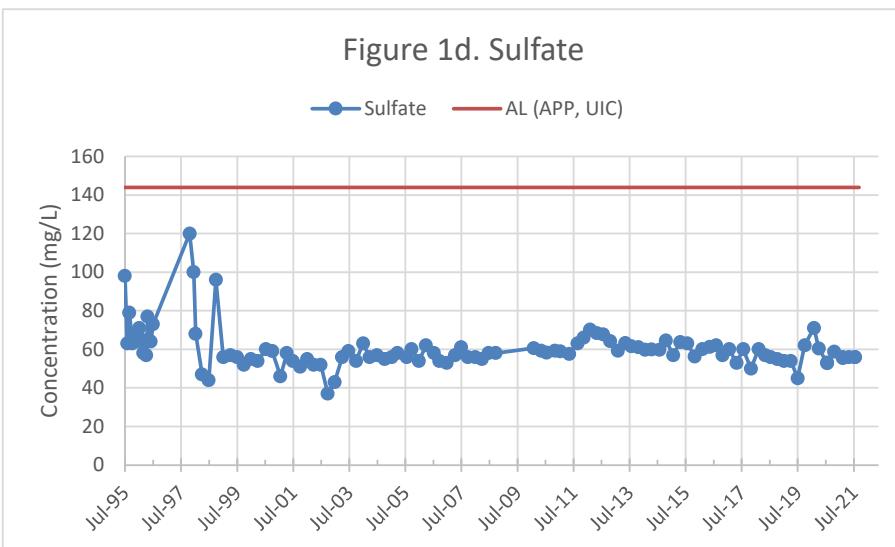
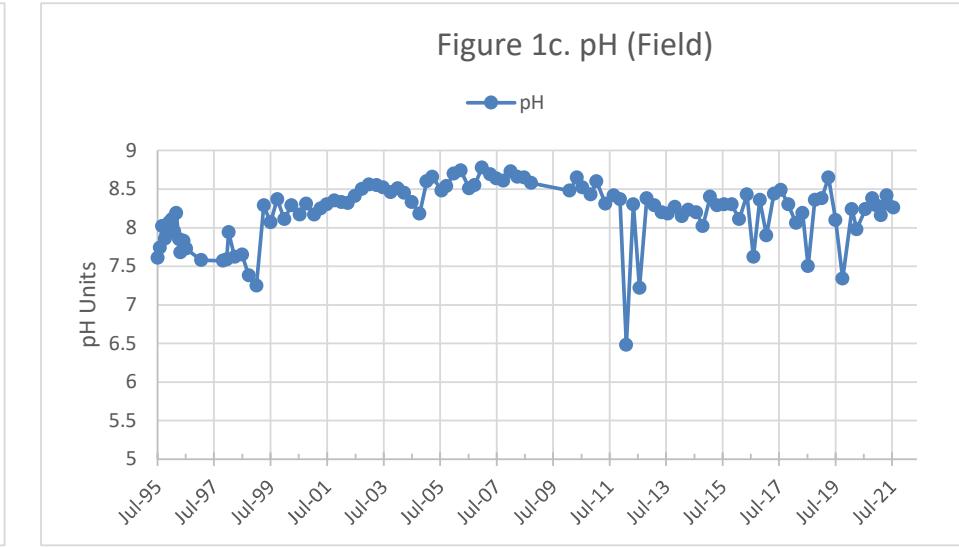
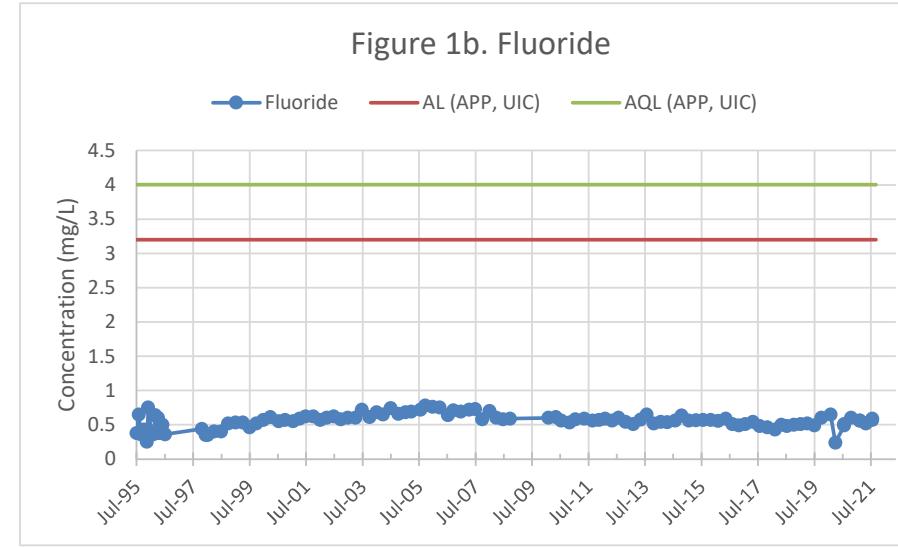
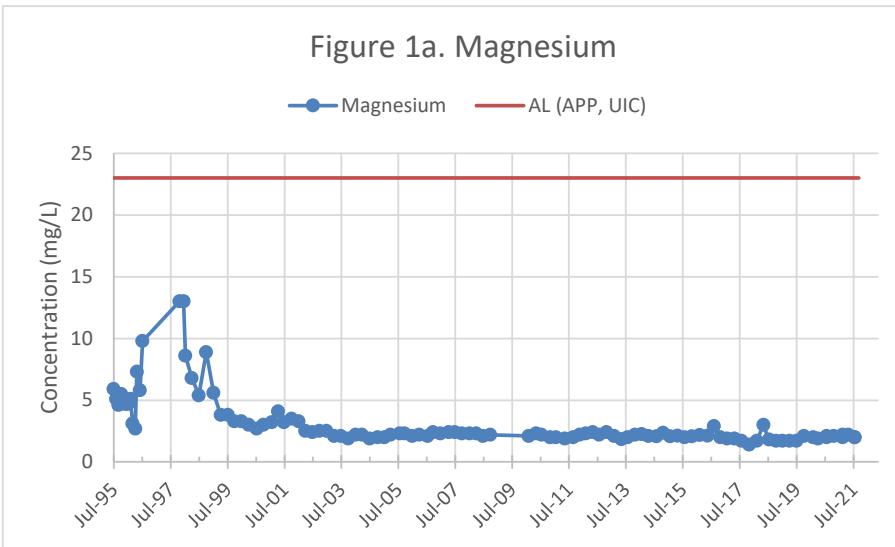
Table and Graphs of Monitor Well Water Levels and Analytical Results

- 6A. Quarterly Concentration Graphs**
- 6B. Well Details and Water Level Elevations**
- 6C. Groundwater Monitoring Summary**

ATTACHMENT 6A

Quarterly Concentration Graphs

M14-GL QUARTERLY CONCENTRATION GRAPHS



Notes:

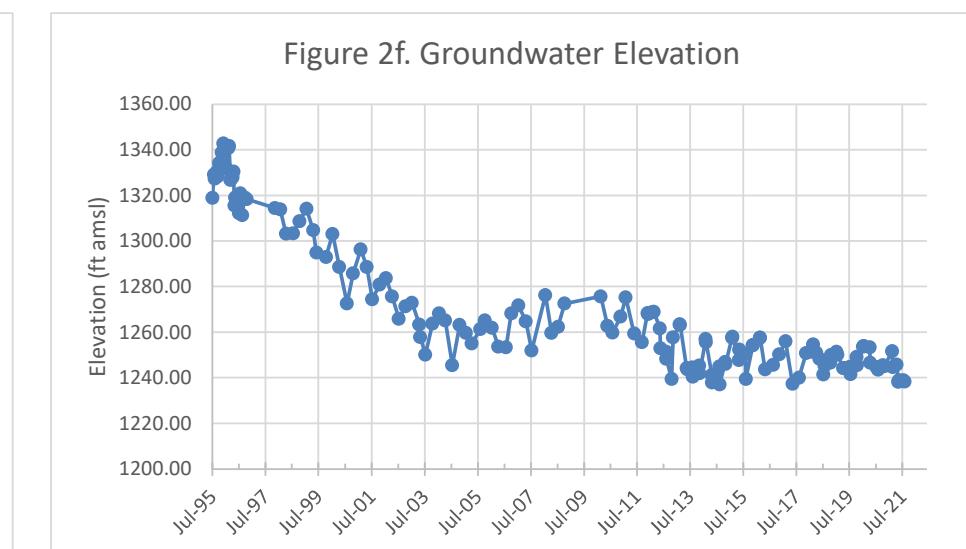
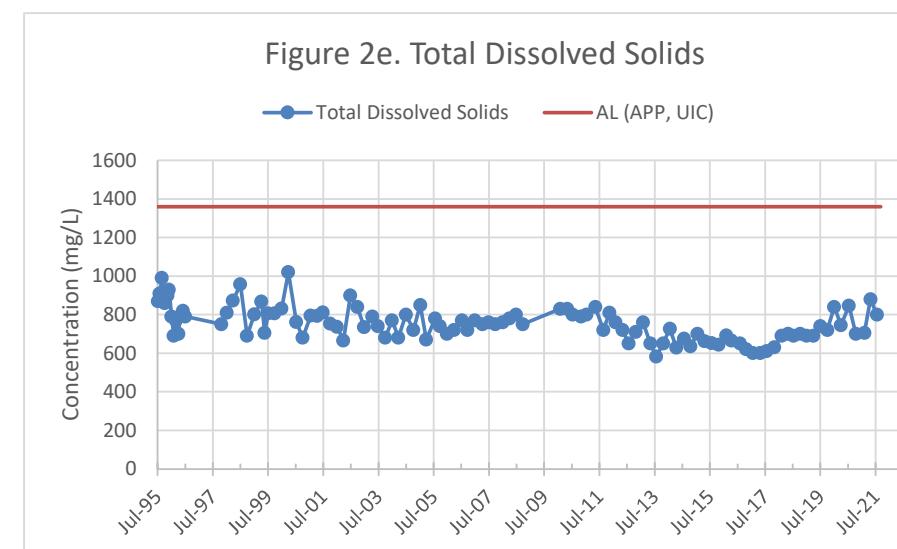
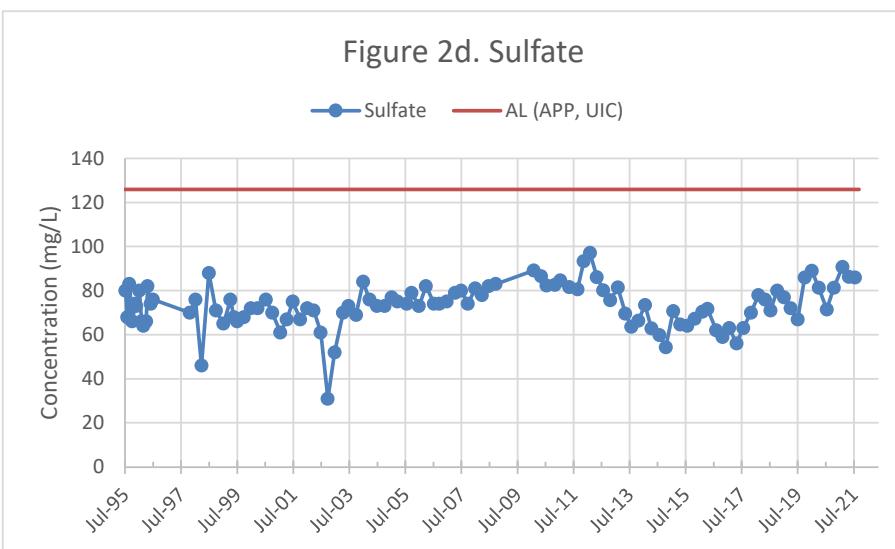
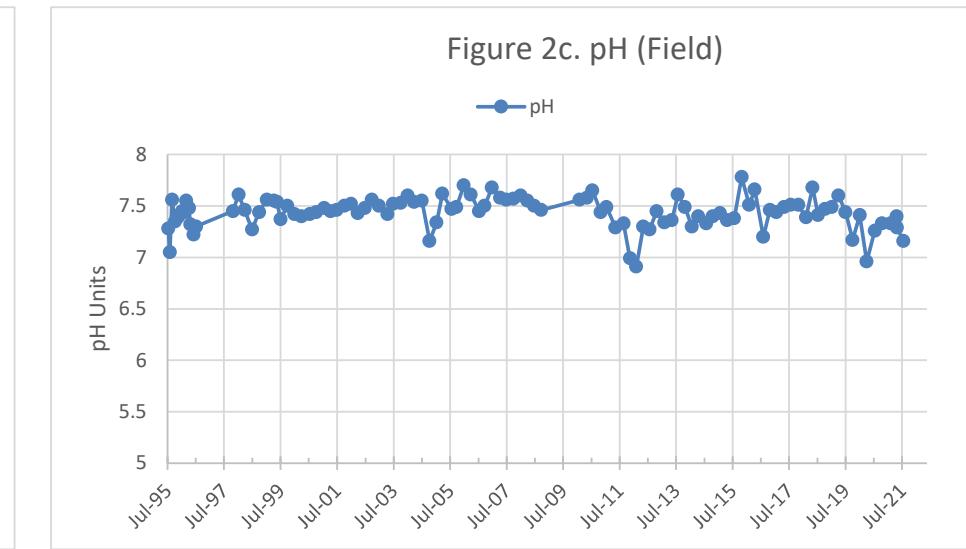
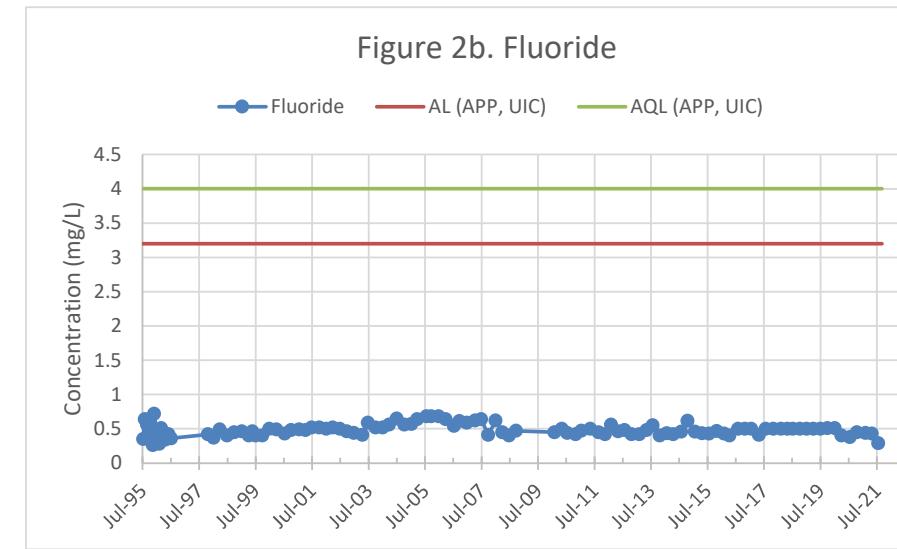
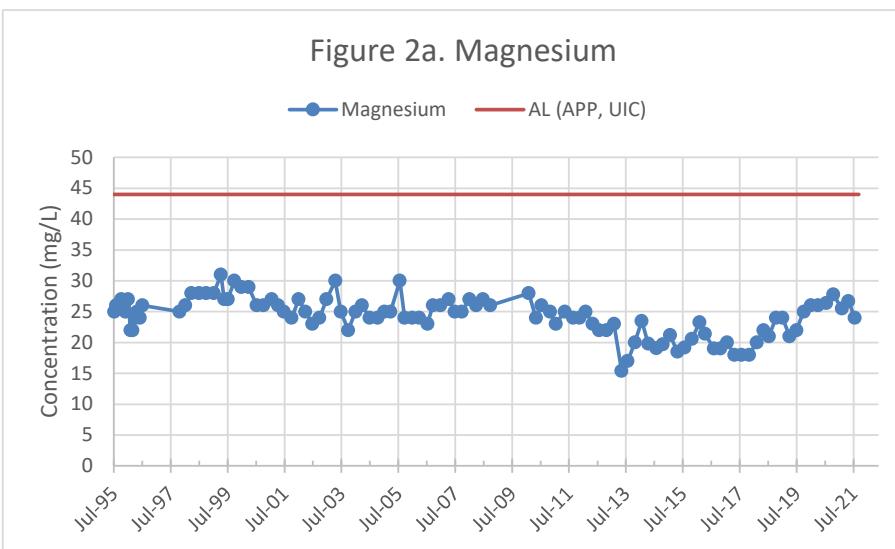
AL = Alert level

AQL = Aquifer Quality Limit

APP = APP No. P-101704

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

M15-GU QUARTERLY CONCENTRATION GRAPHS



Notes:

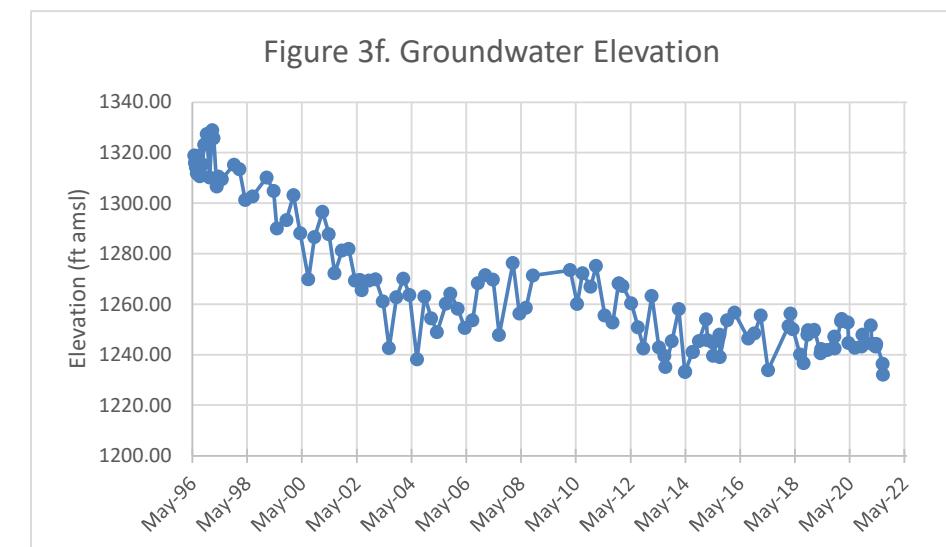
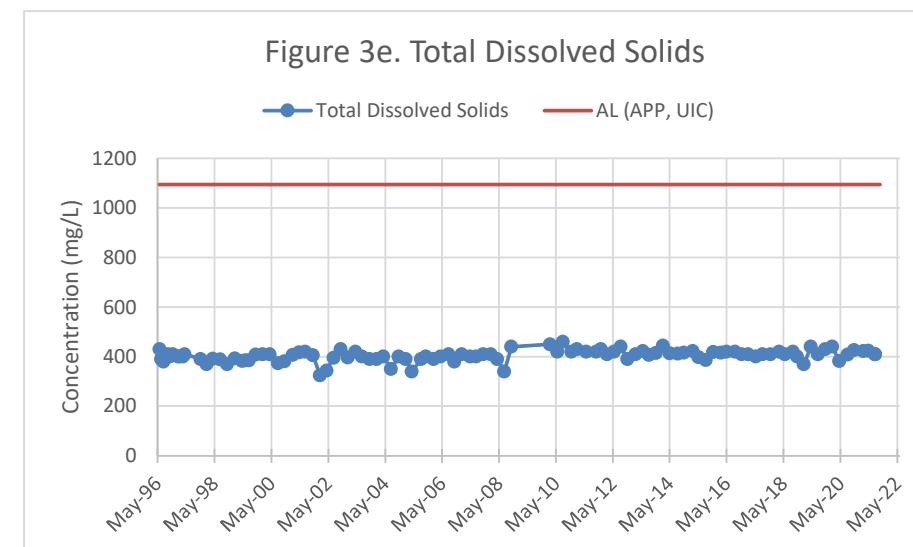
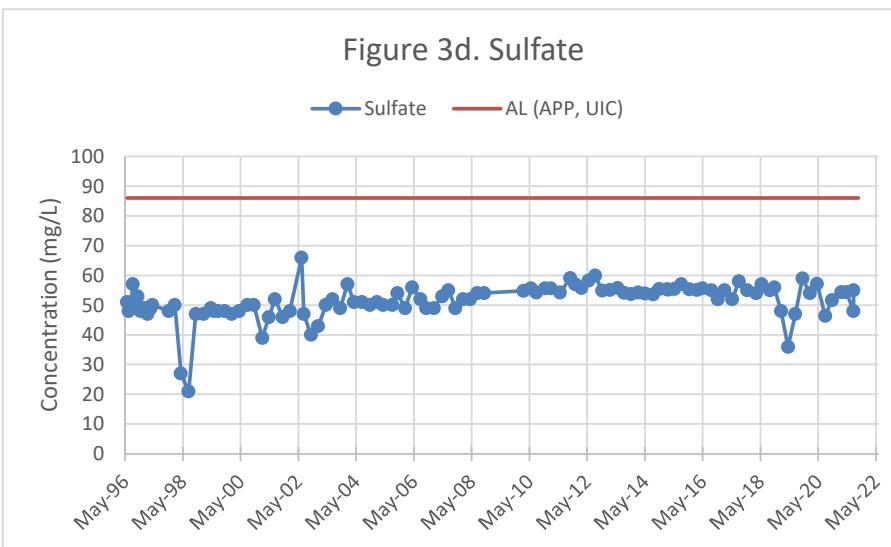
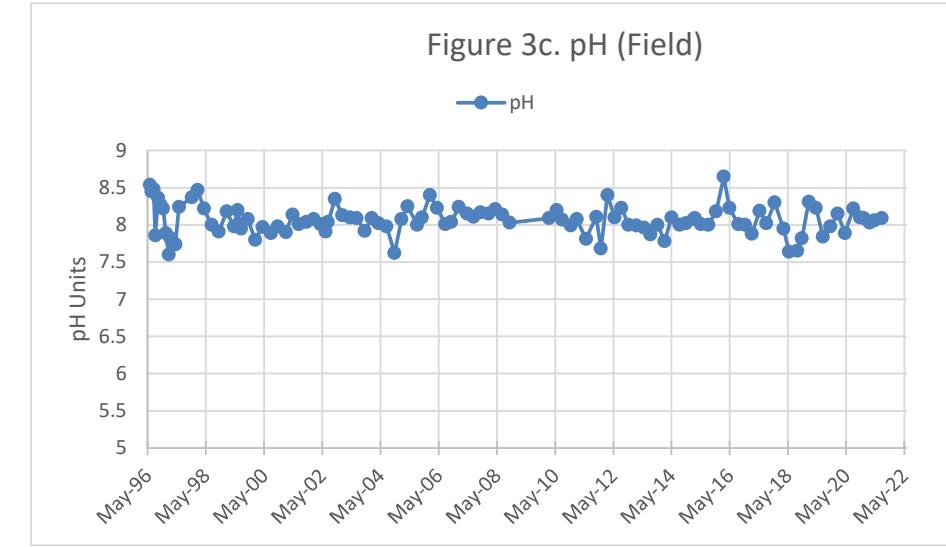
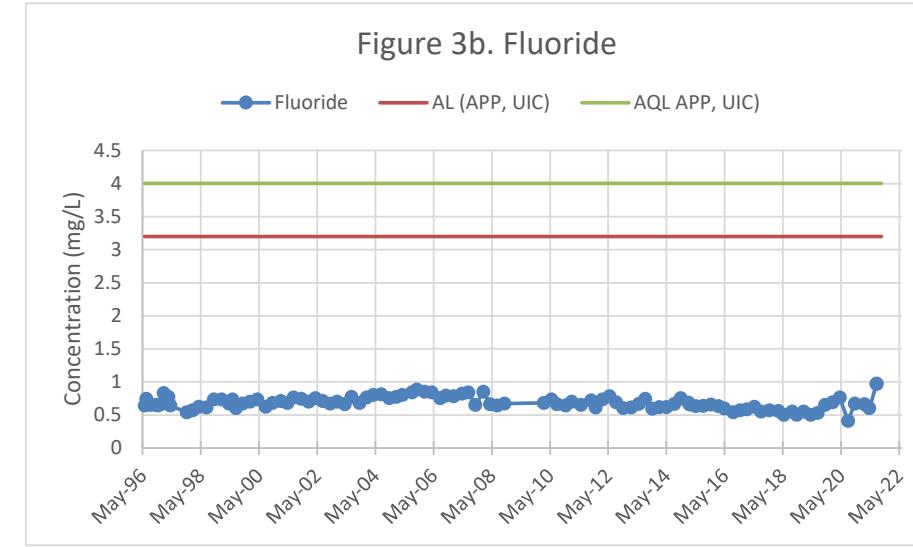
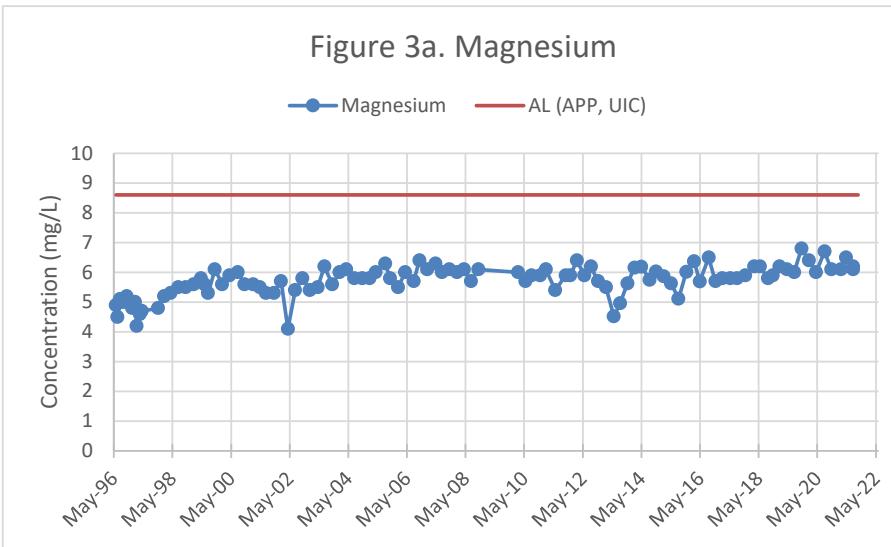
AL = Alert level

AQL = Aquifer Quality Limit

APP = APP No. P-101704

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

M22-O QUARTERLY CONCENTRATION GRAPHS



Notes:

Historical outliers removed from graphs for visual representation, but are maintained in the dataset.

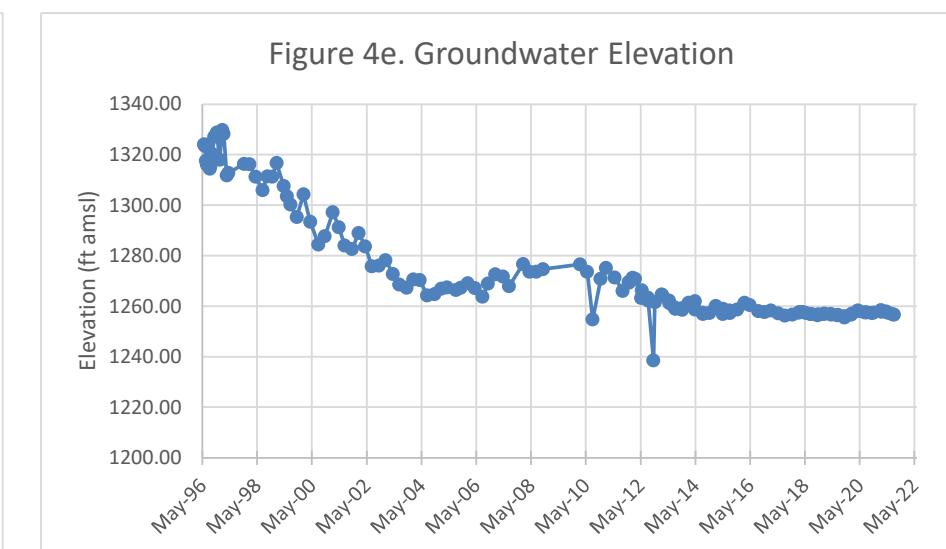
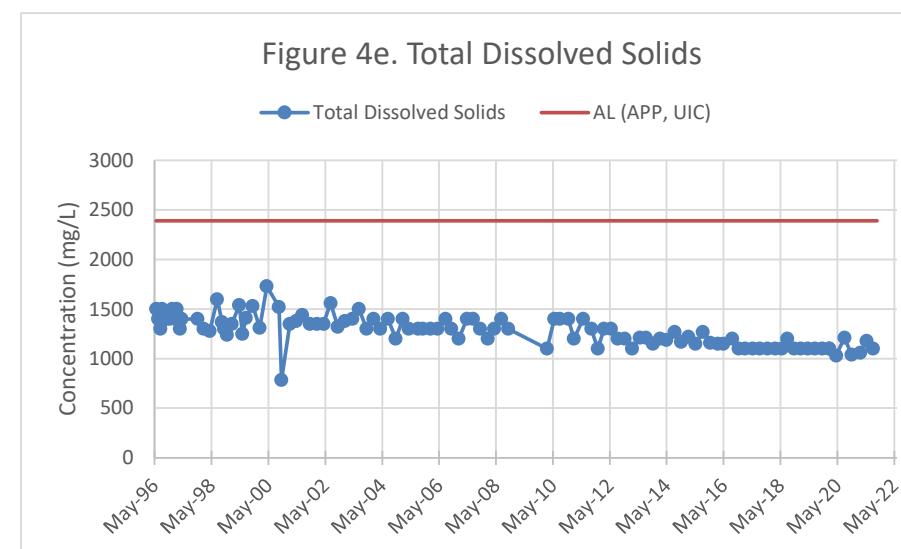
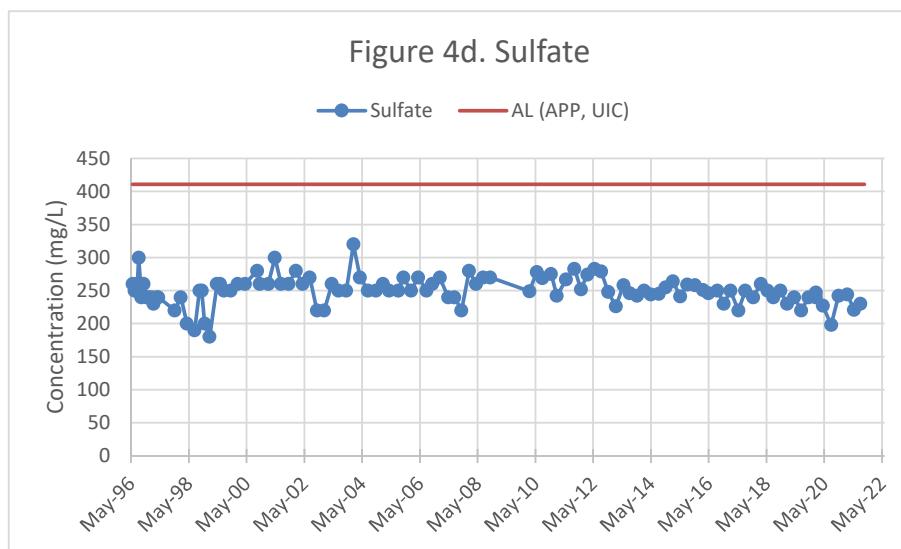
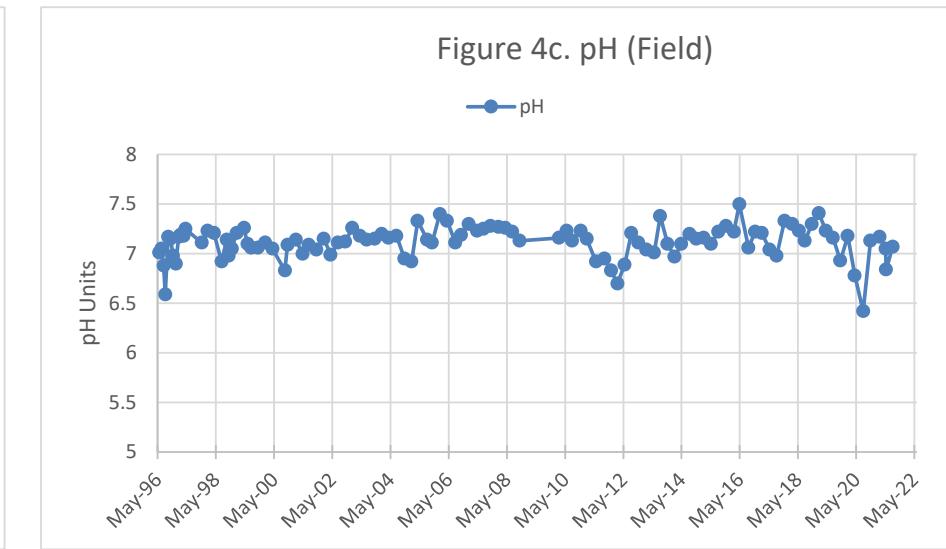
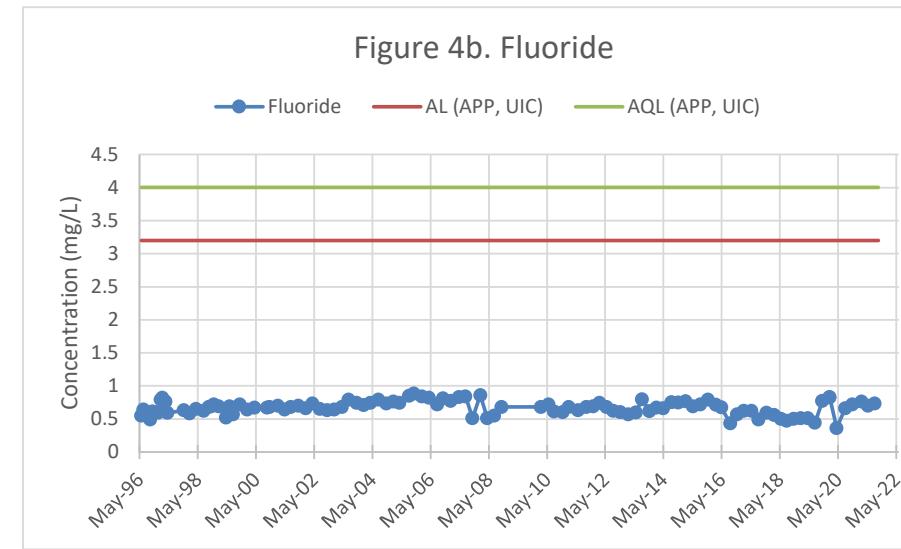
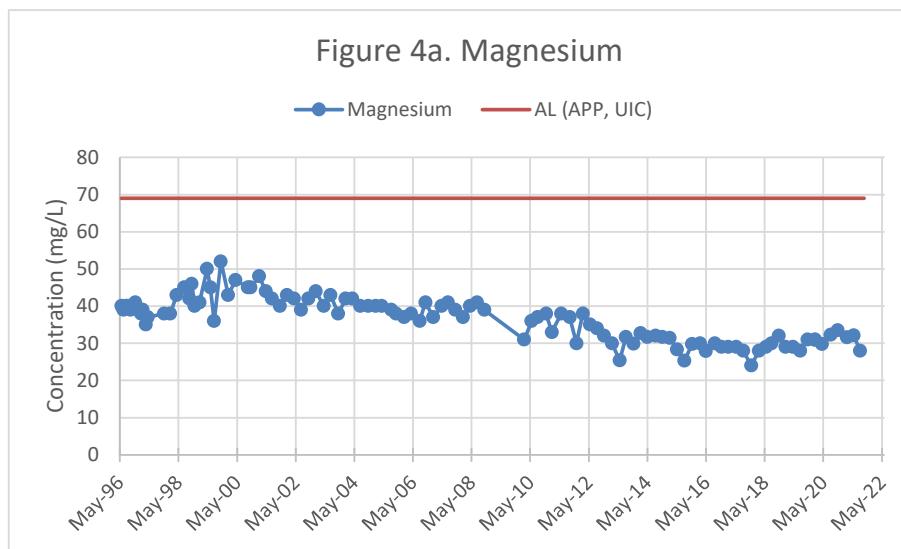
AL = Alert level

AQL = Aquifer Quality Limit

APP = APP No. P-101704

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

M23-UBF QUARTERLY CONCENTRATION GRAPHS



Notes:

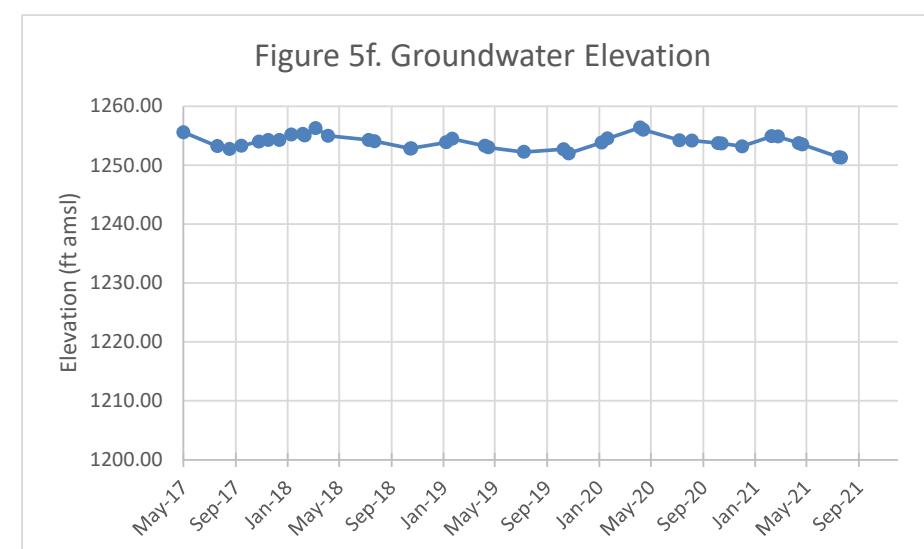
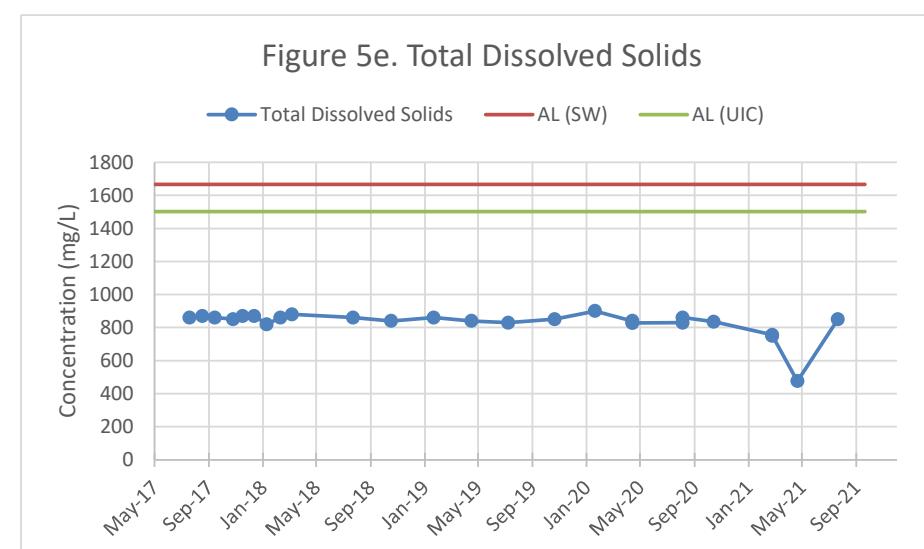
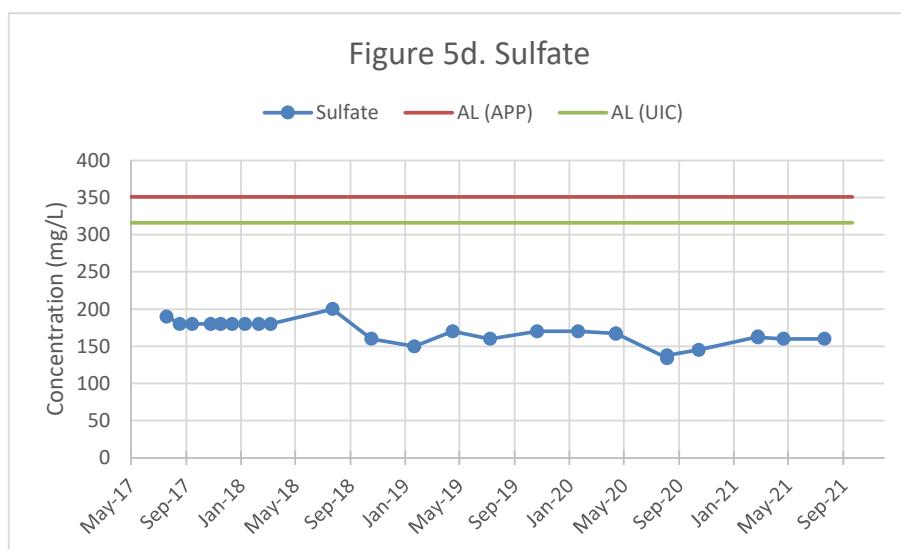
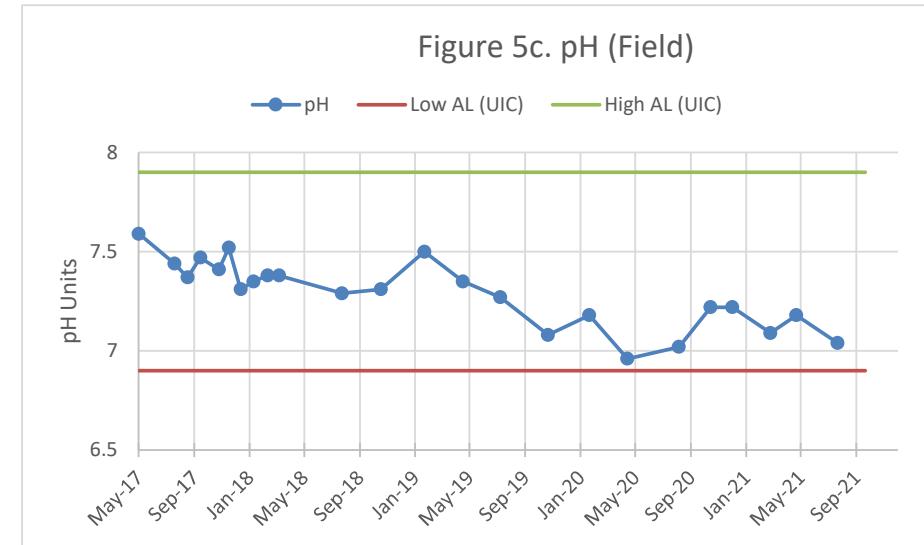
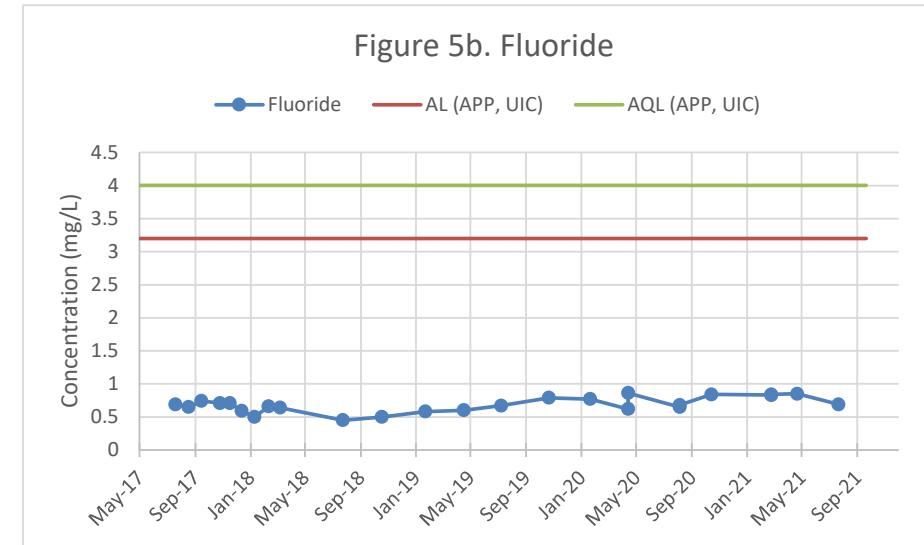
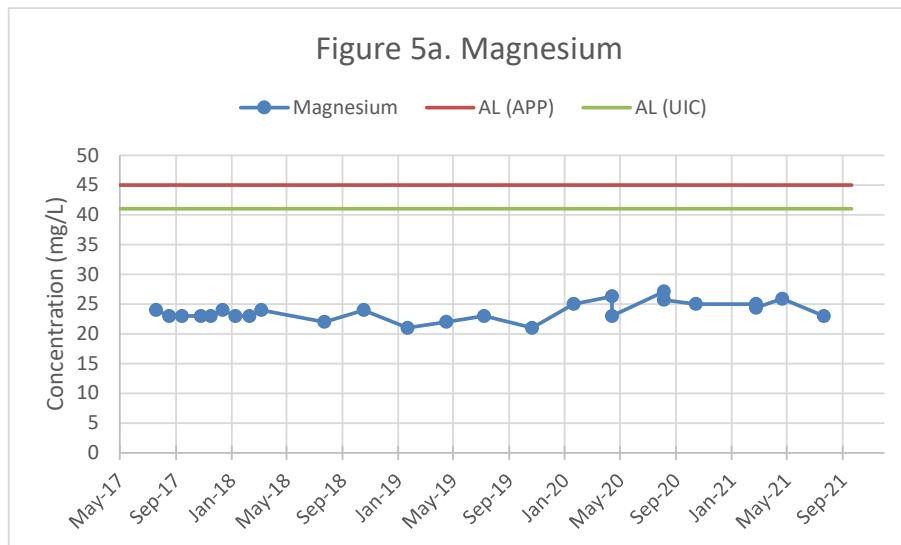
AL = Alert level

AQL = Aquifer Quality Limit

APP = APP No. P-101704

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

M52-UBF QUARTERLY CONCENTRATION GRAPHS



Notes:

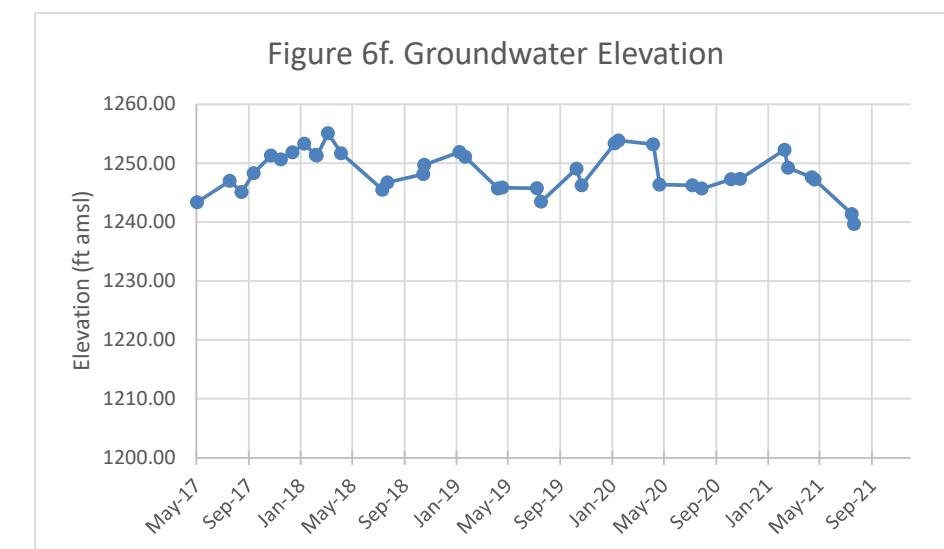
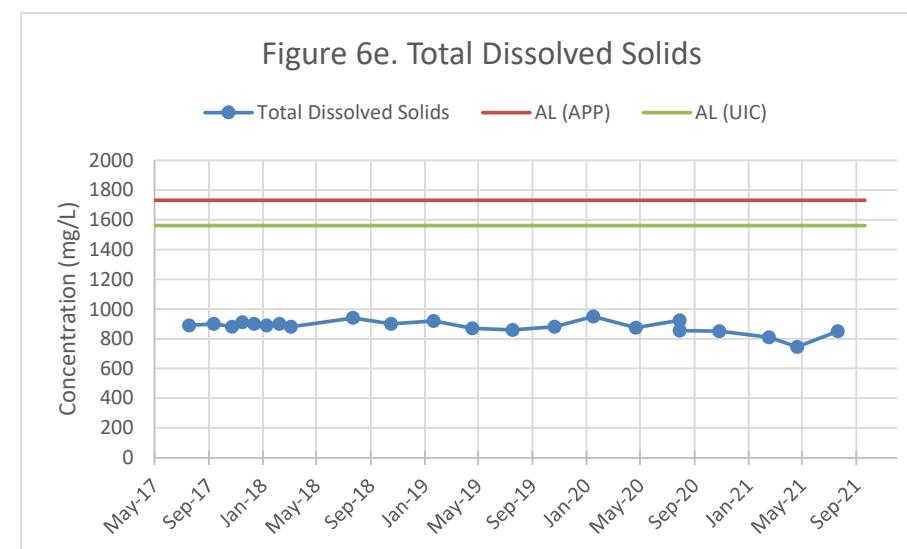
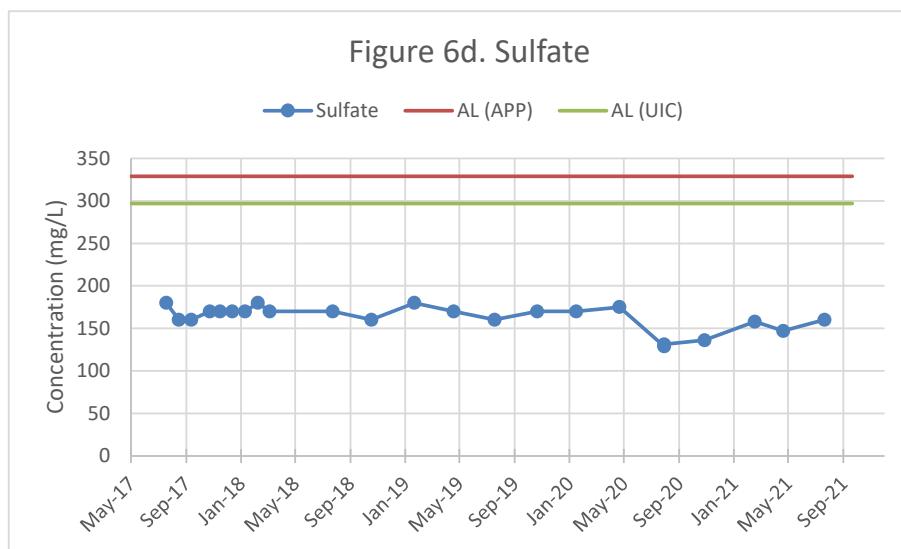
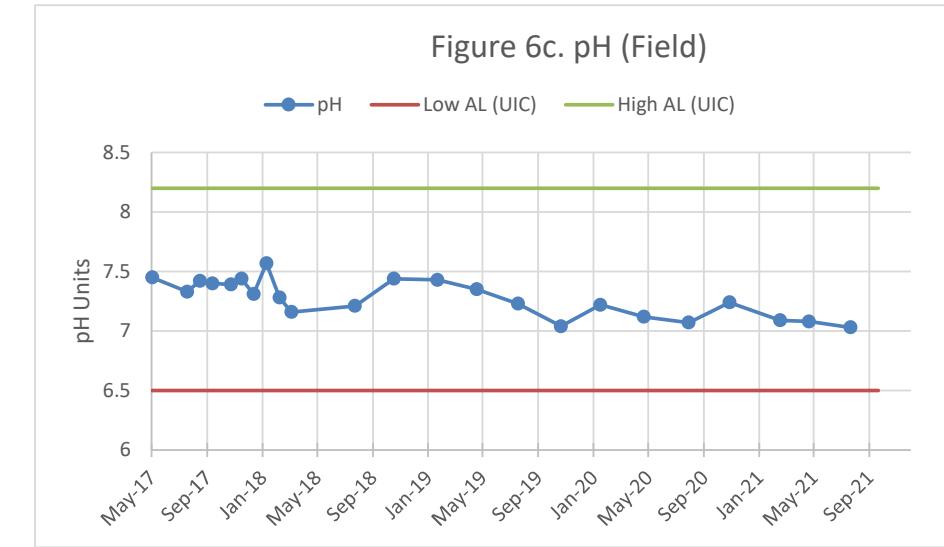
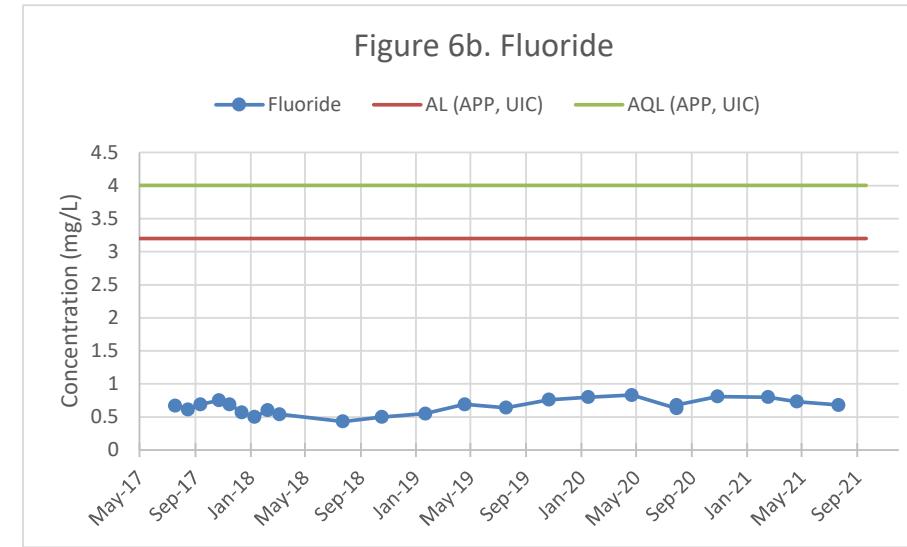
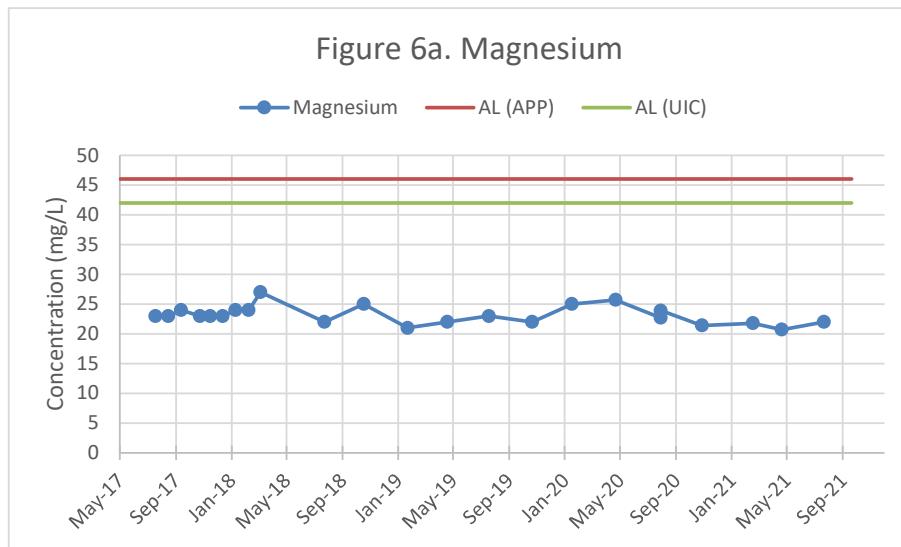
AL = Alert level

AQL = Aquifer Quality Limit

APP = APP No. P-101704

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

M54-LBF QUARTERLY CONCENTRATION GRAPHS



Notes:

Historical outliers removed from graphs for visual representation, but are maintained in the dataset.

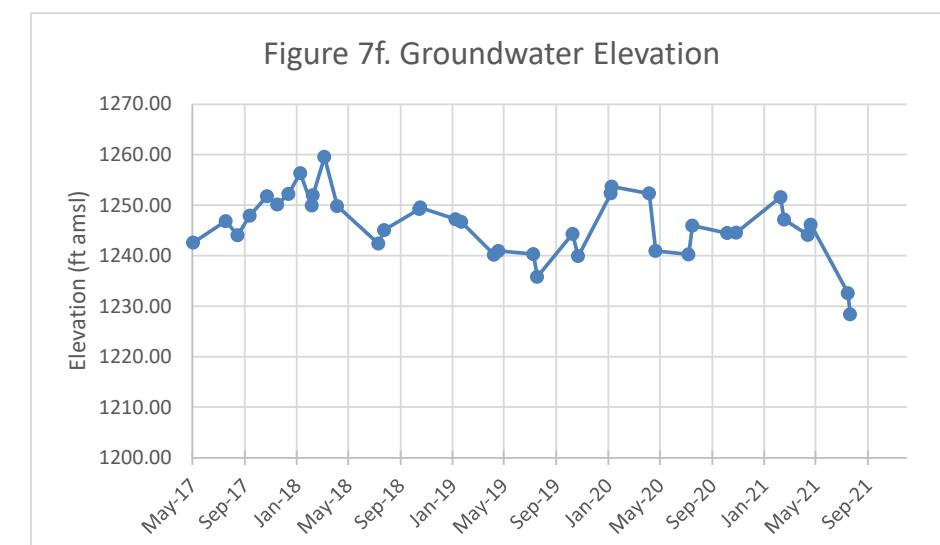
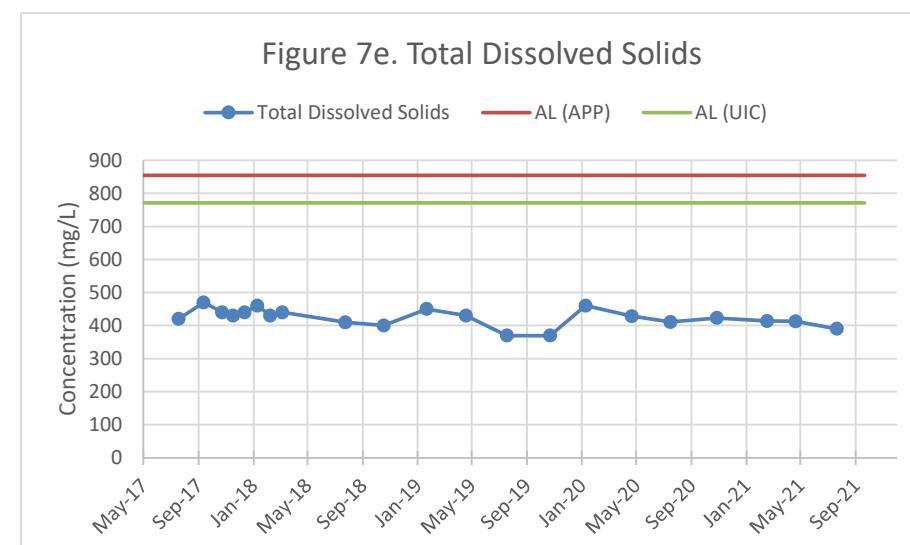
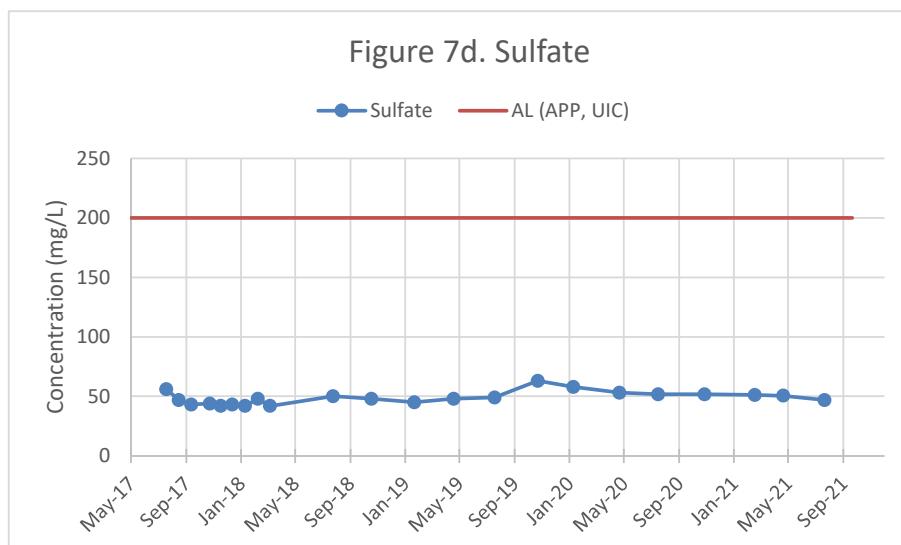
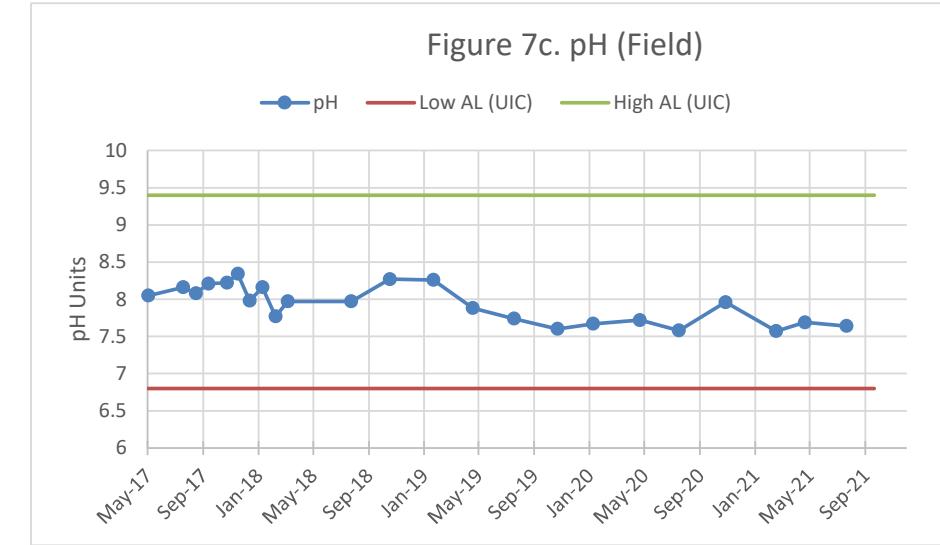
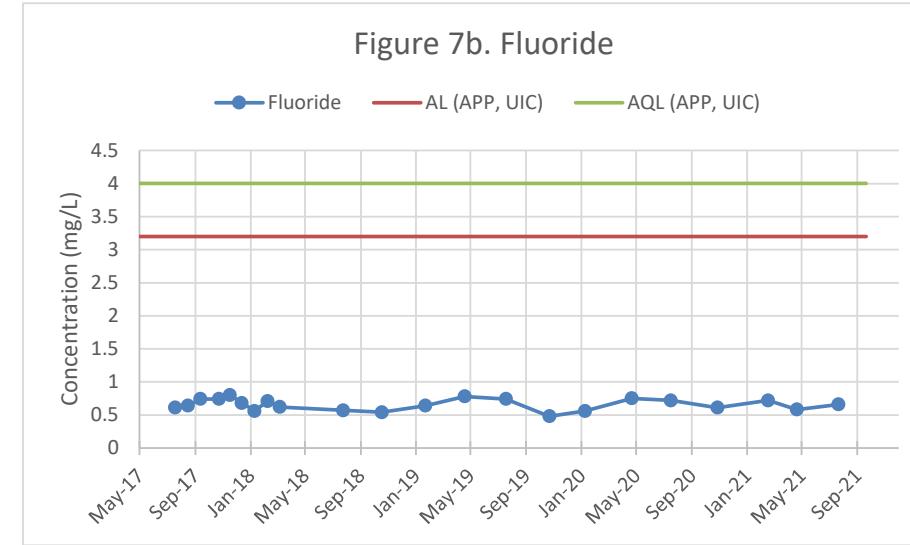
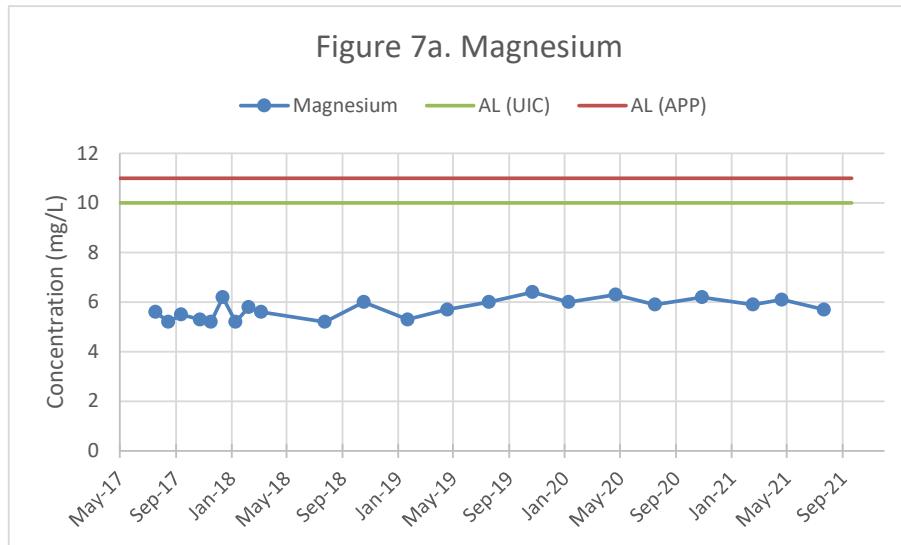
AL = Alert level

AQL = Aquifer Quality Limit

APP = APP No. P-101704

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

M54-O QUARTERLY CONCENTRATION GRAPHS



Notes:

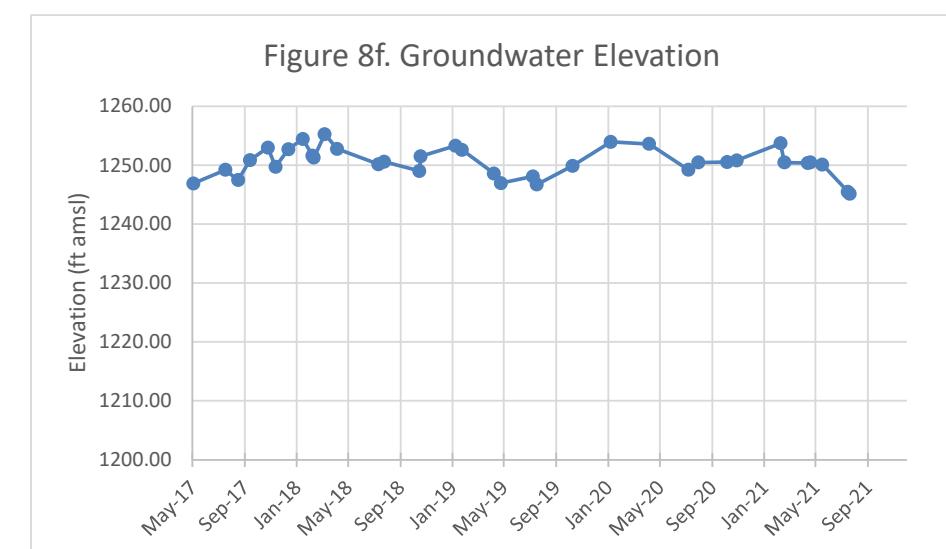
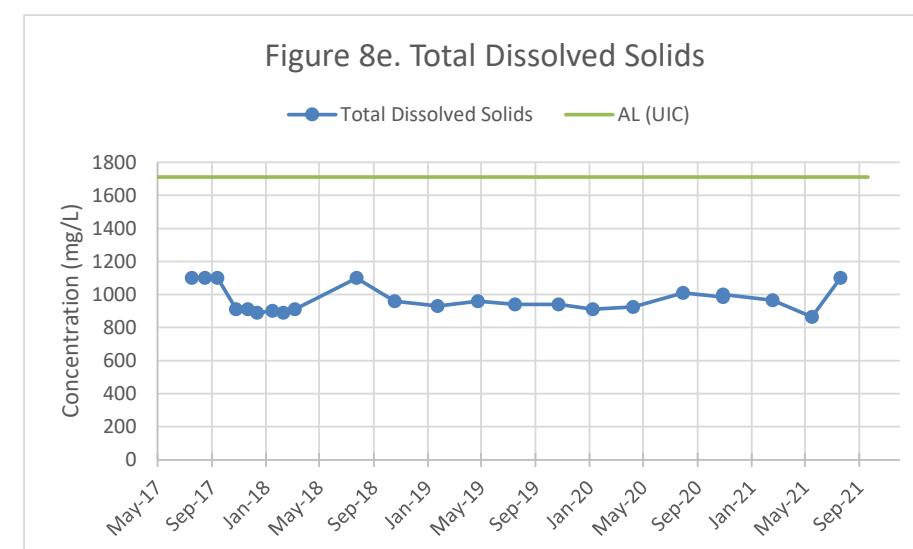
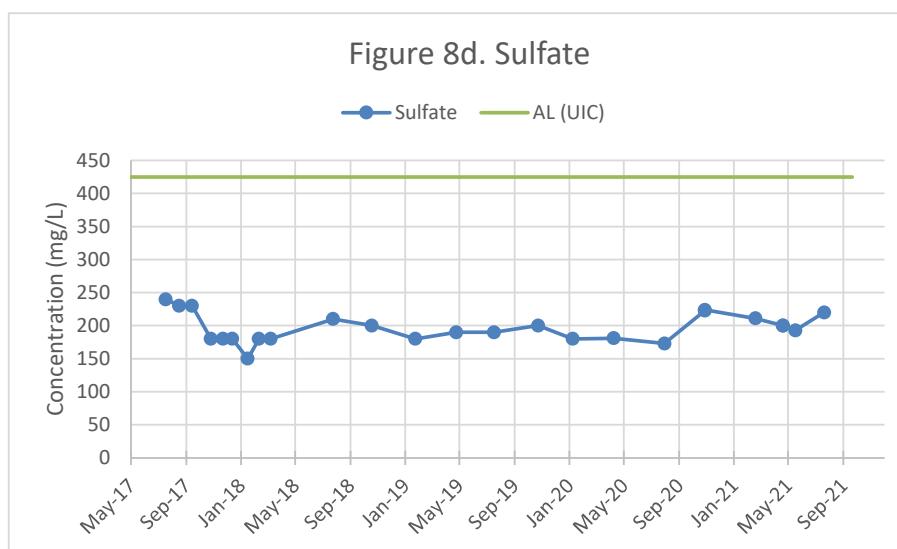
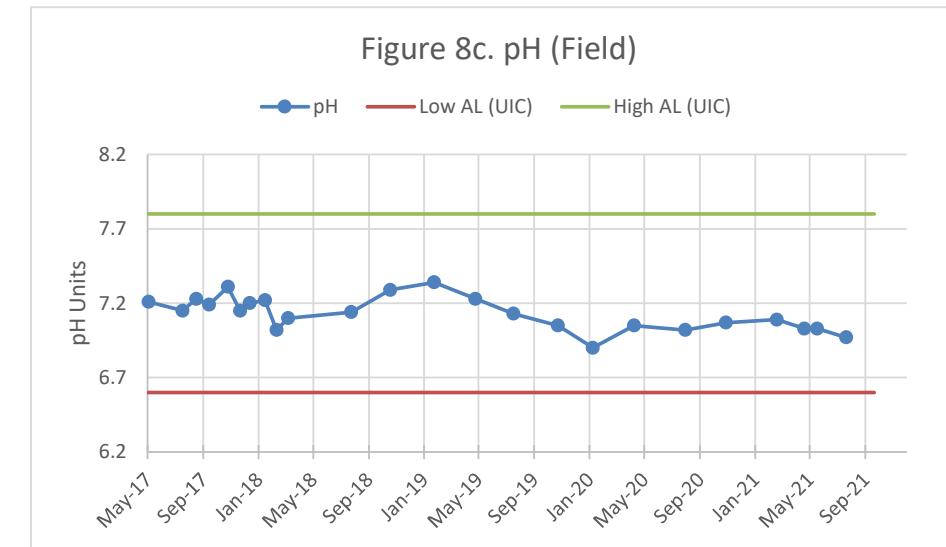
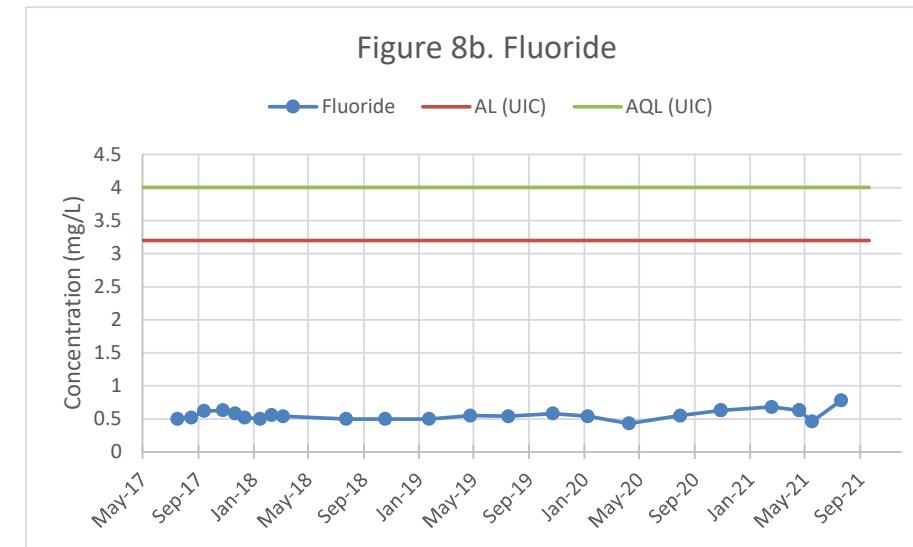
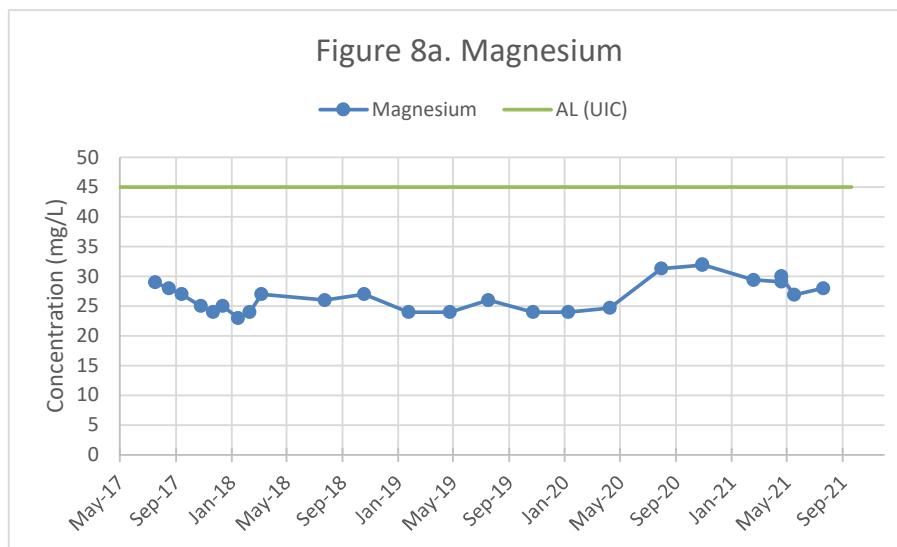
AL = Alert level

AQL = Aquifer Quality Limit

APP = APP No. P-101704

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

M55-UBF QUARTERLY CONCENTRATION GRAPHS



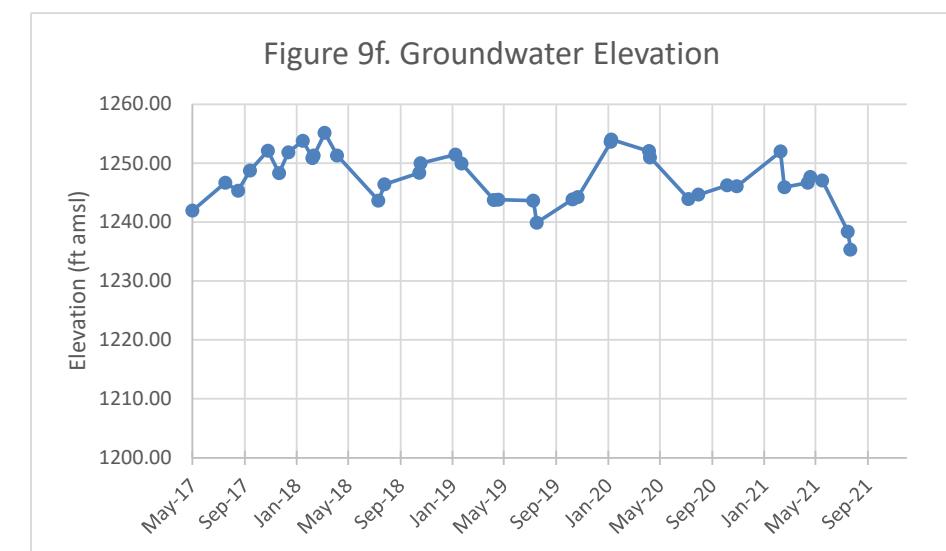
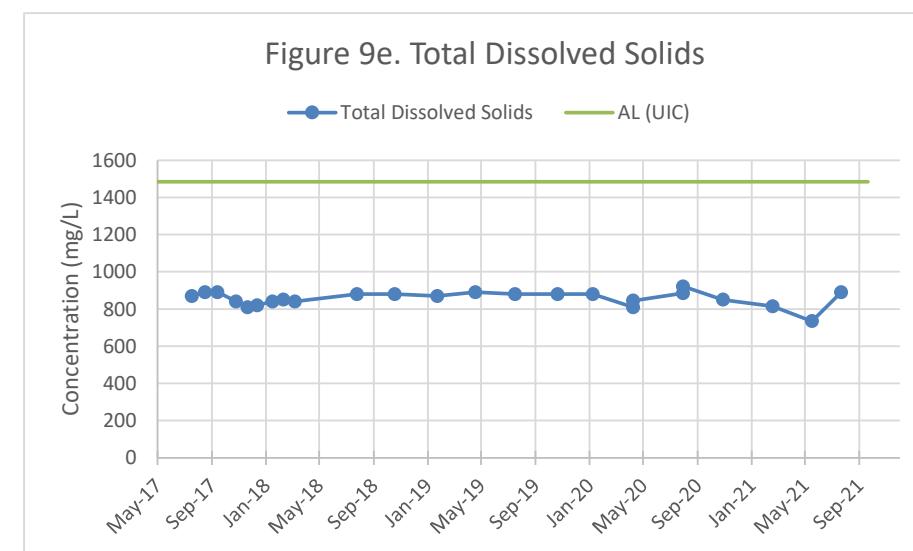
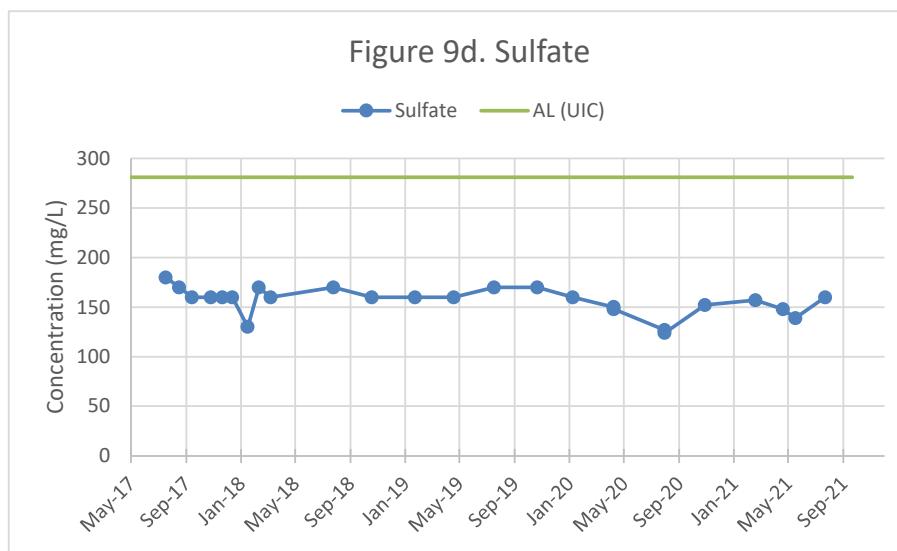
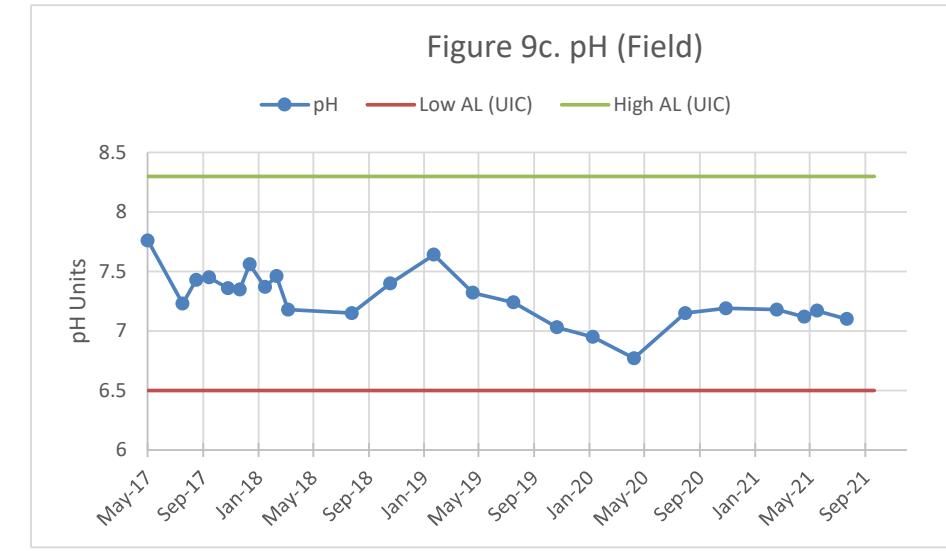
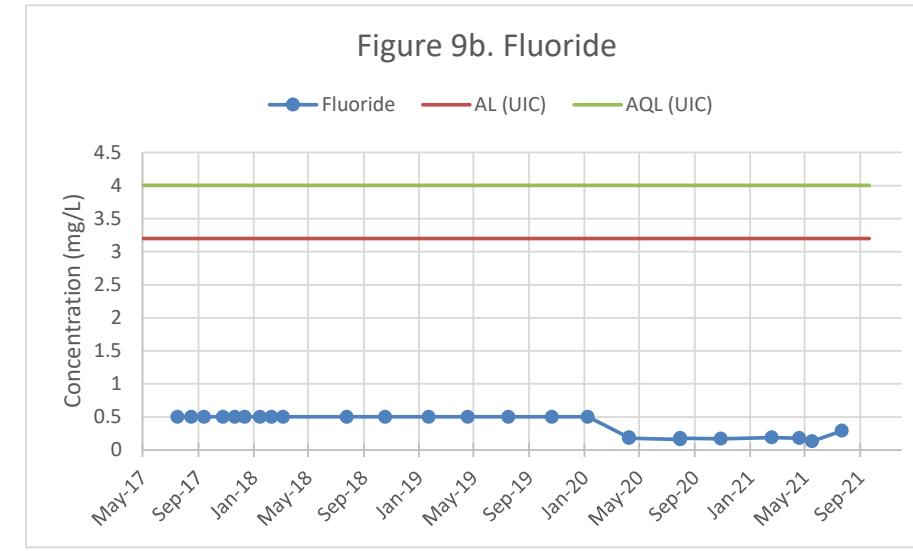
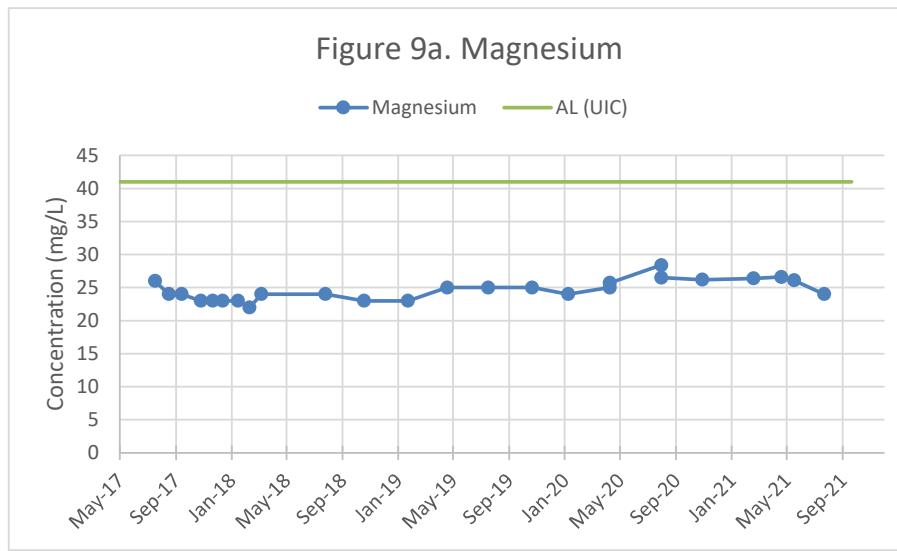
Notes:

AL = Alert level

AQL = Aquifer Quality Limit

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

M56-LBF QUARTERLY CONCENTRATION GRAPHS



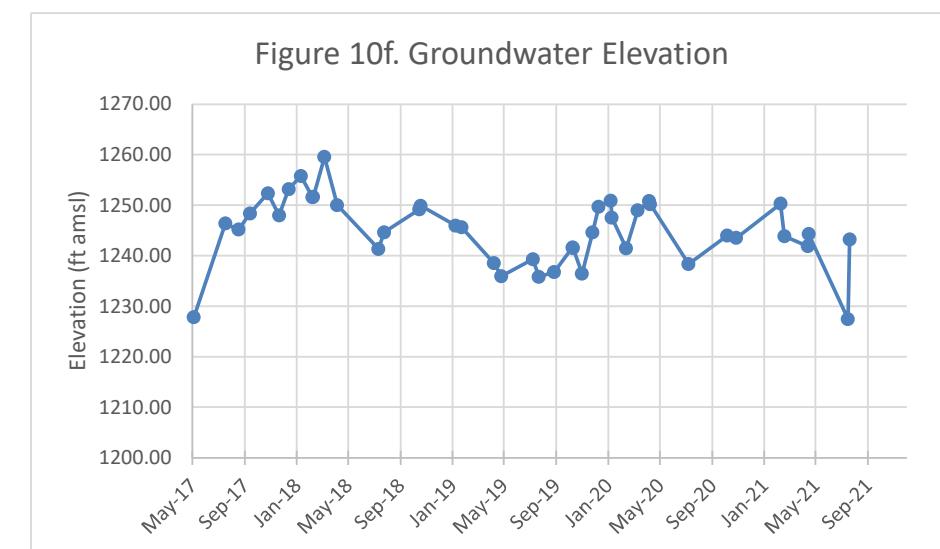
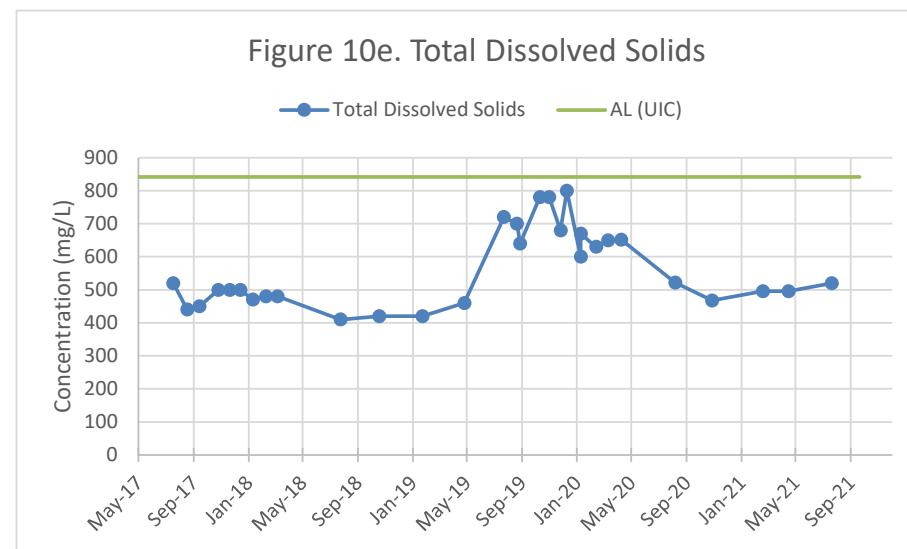
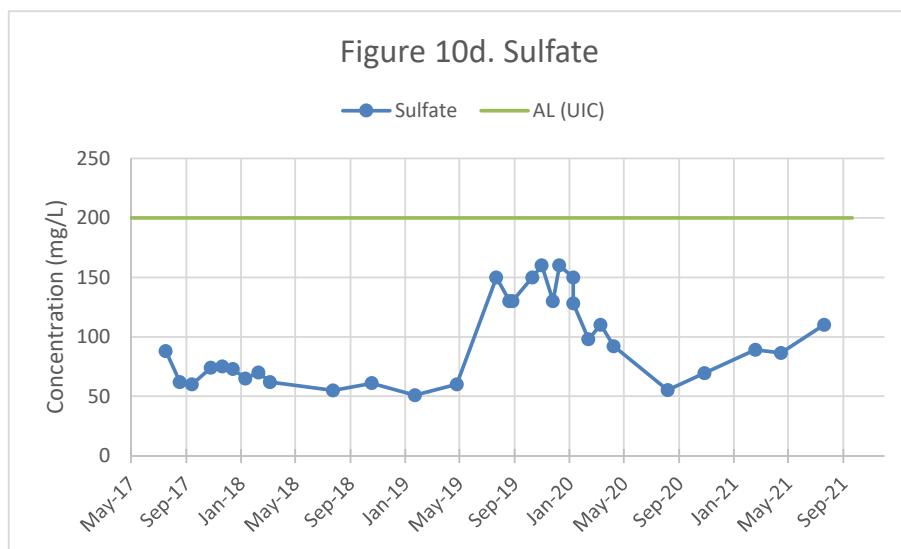
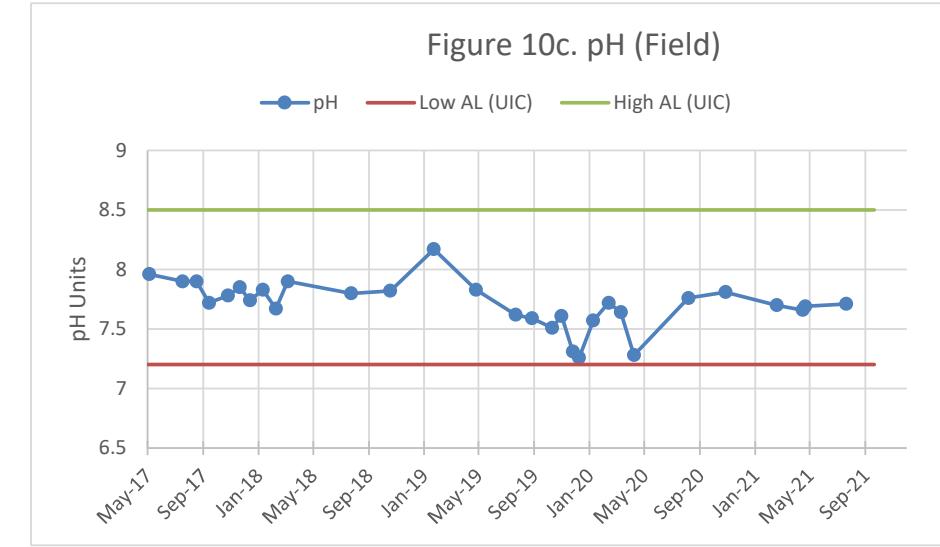
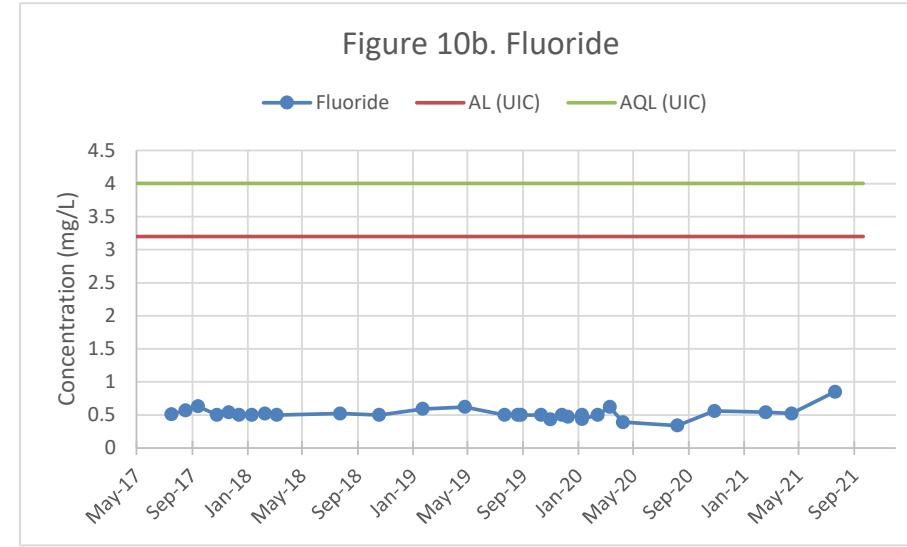
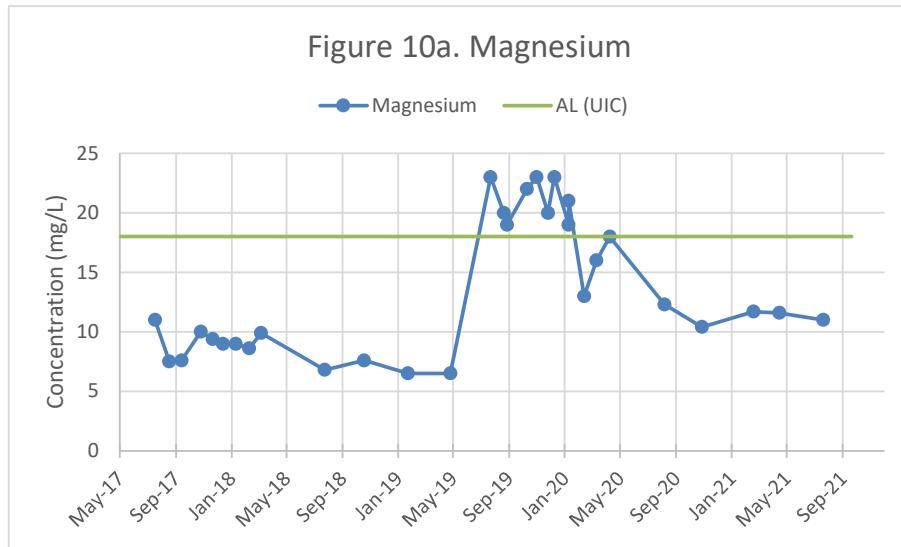
Notes:

AL = Alert level

AQL = Aquifer Quality Limit

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

M57-O QUARTERLY CONCENTRATION GRAPHS



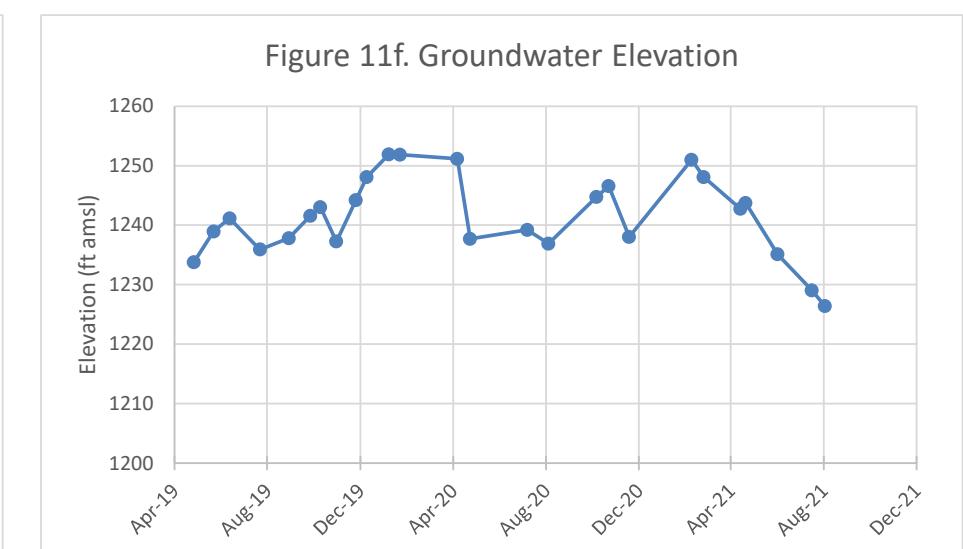
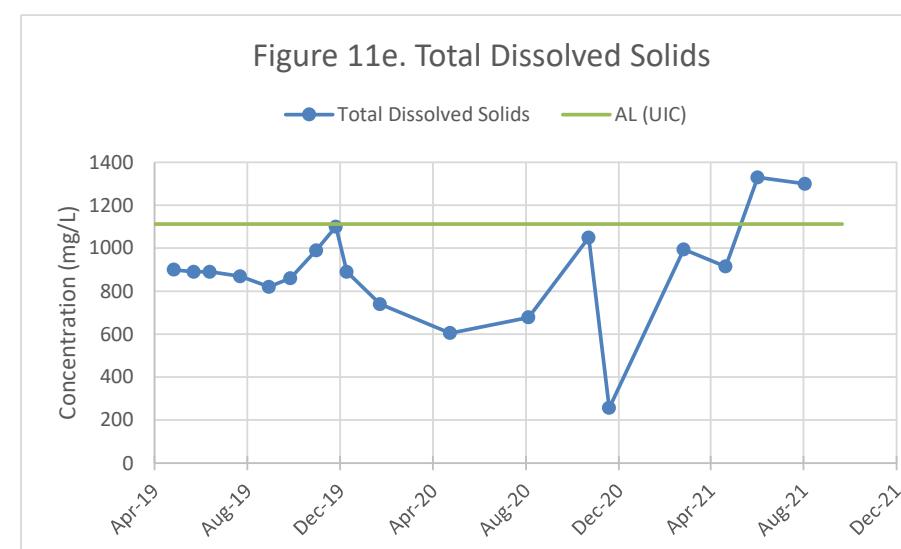
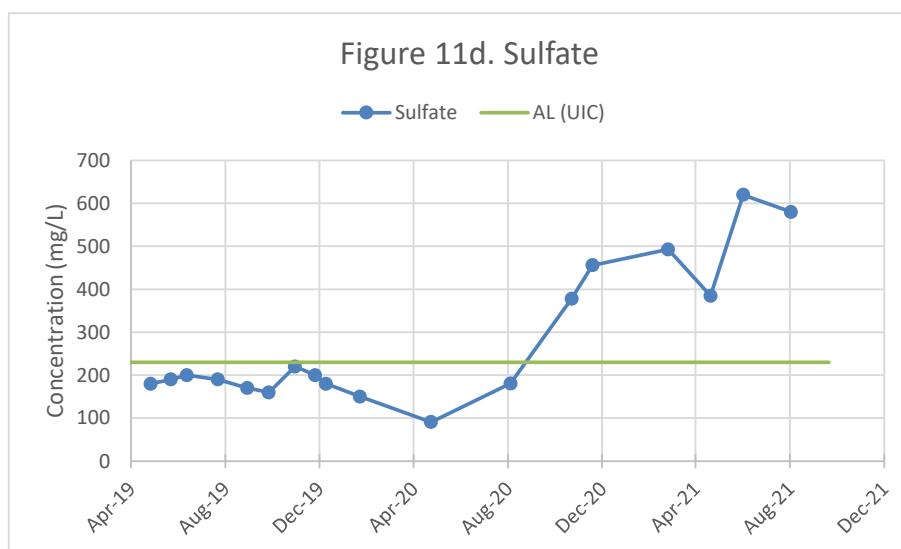
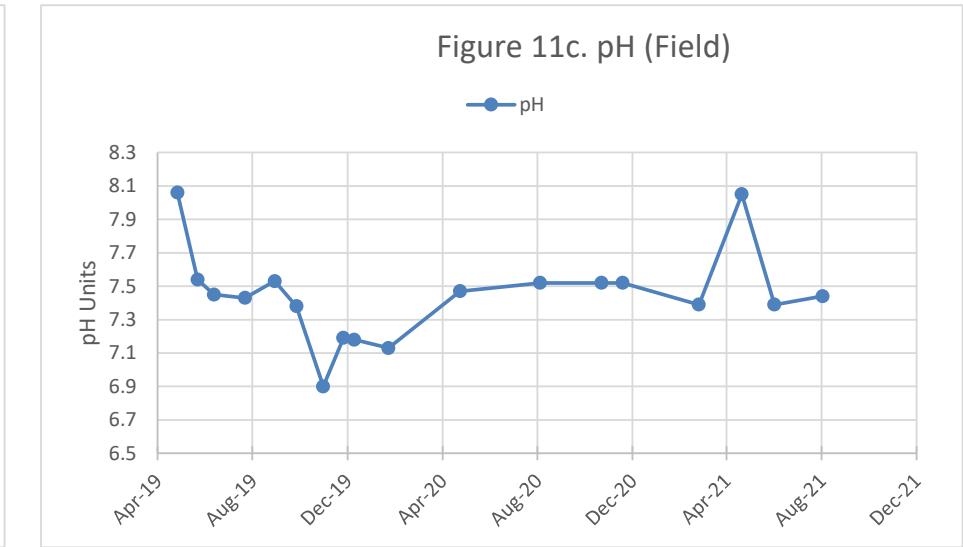
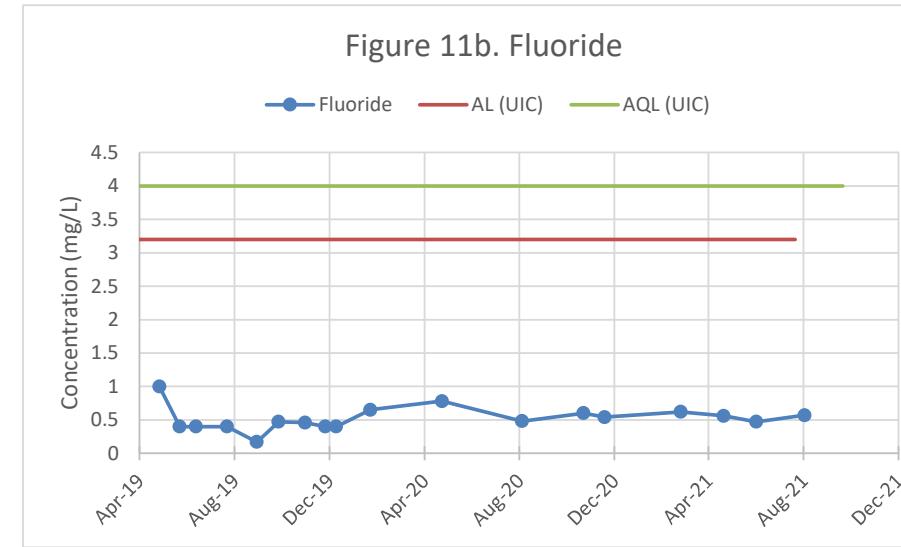
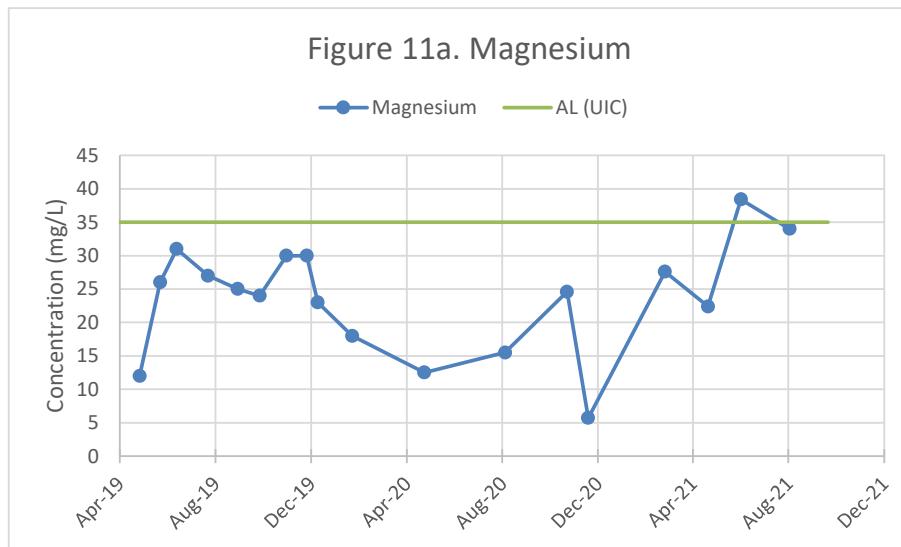
Notes:

AL = Alert level

AQL = Aquifer Quality Limit

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

M57R-O QUARTERLY CONCENTRATION GRAPHS



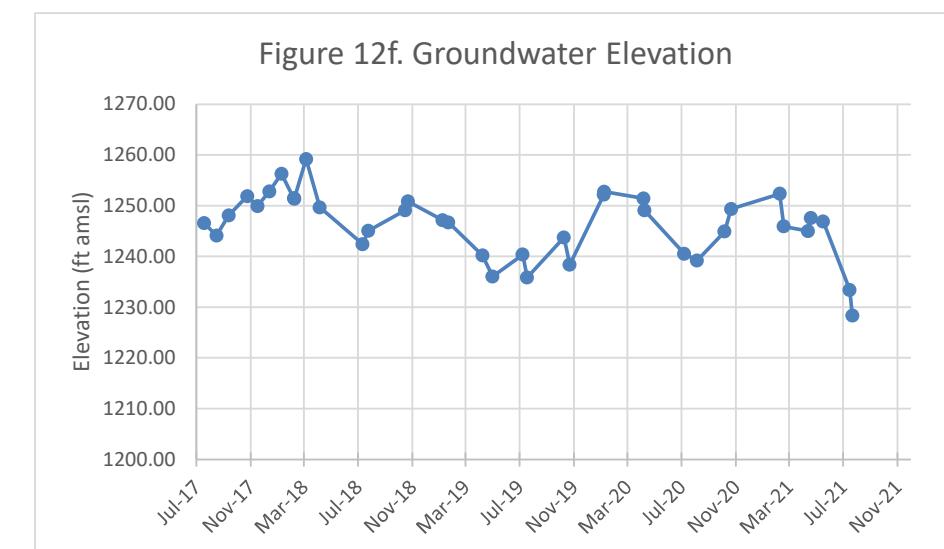
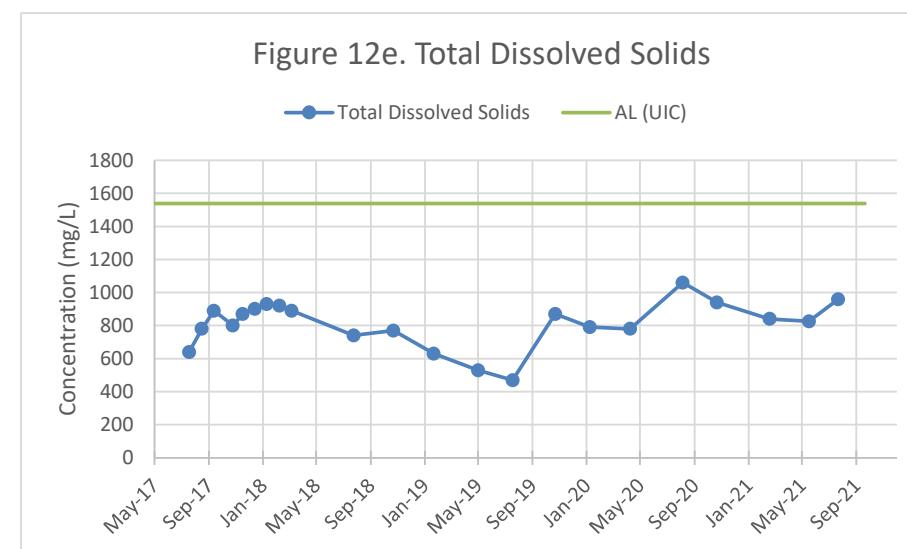
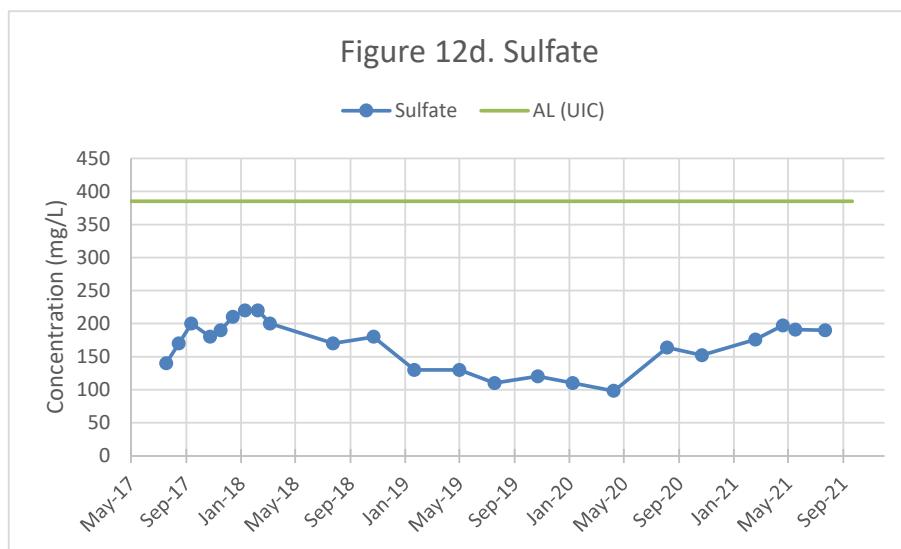
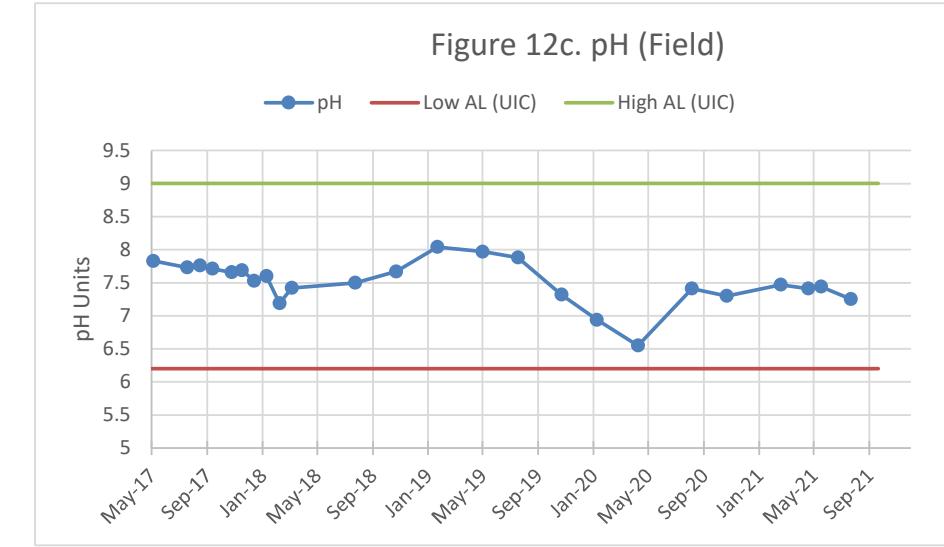
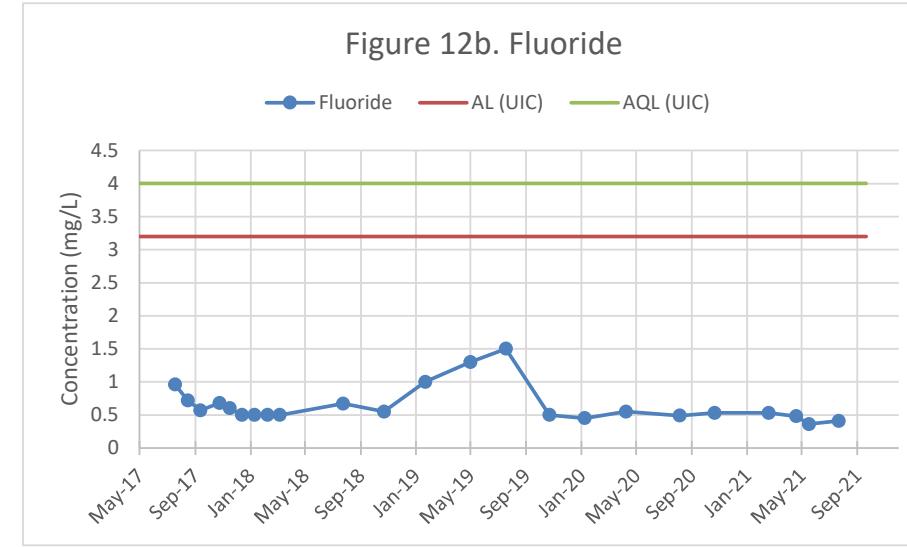
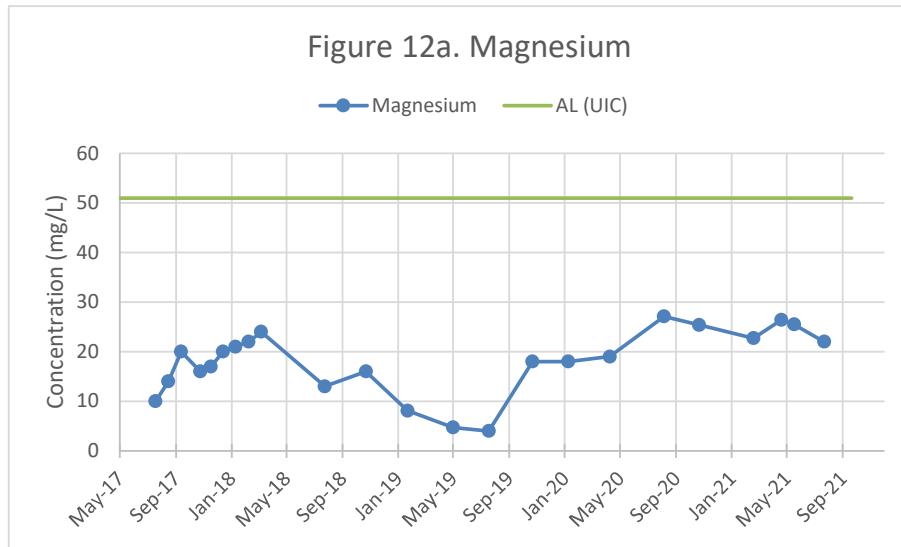
Notes:

AL = Alert level

AQL = Aquifer Quality Limit

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

M58-O QUARTERLY CONCENTRATION GRAPHS



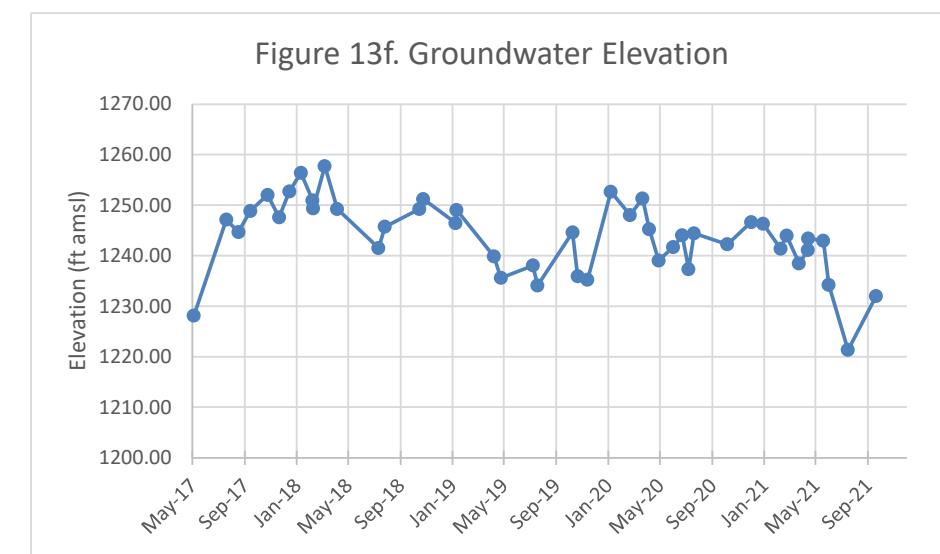
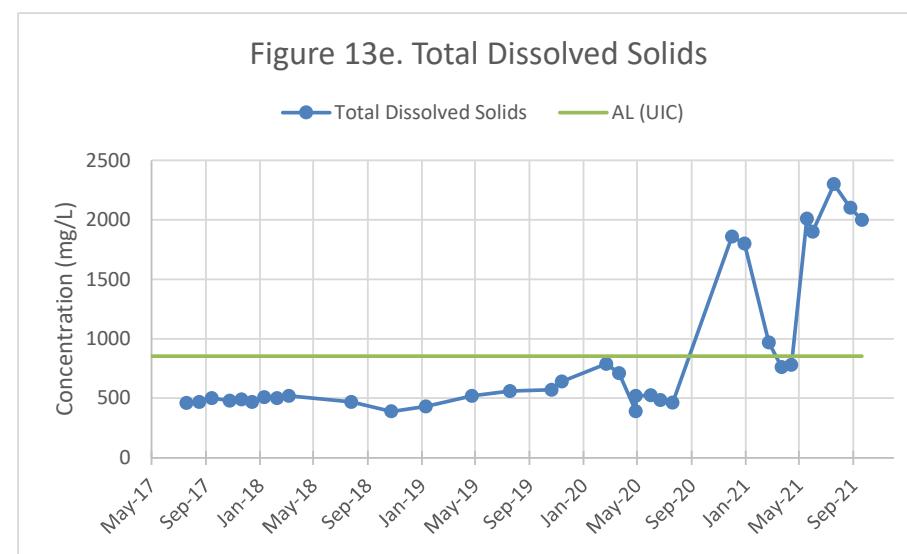
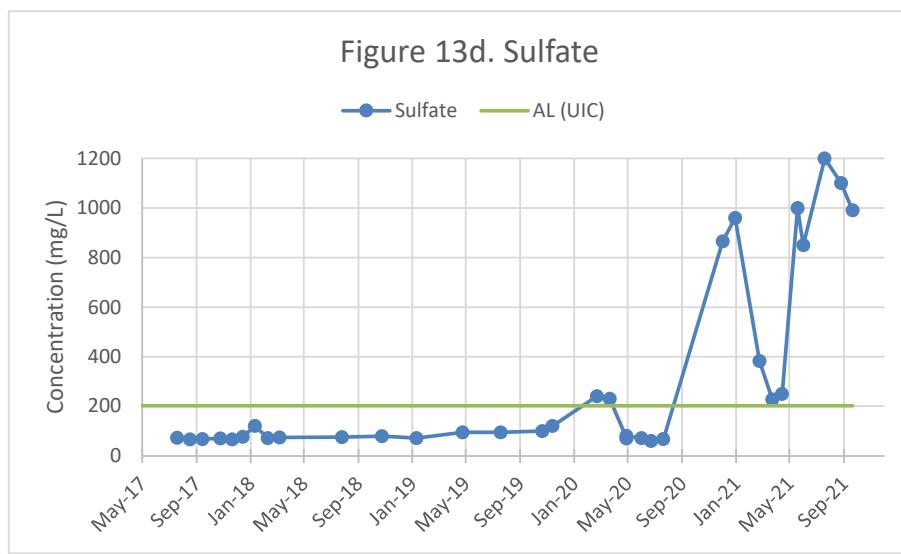
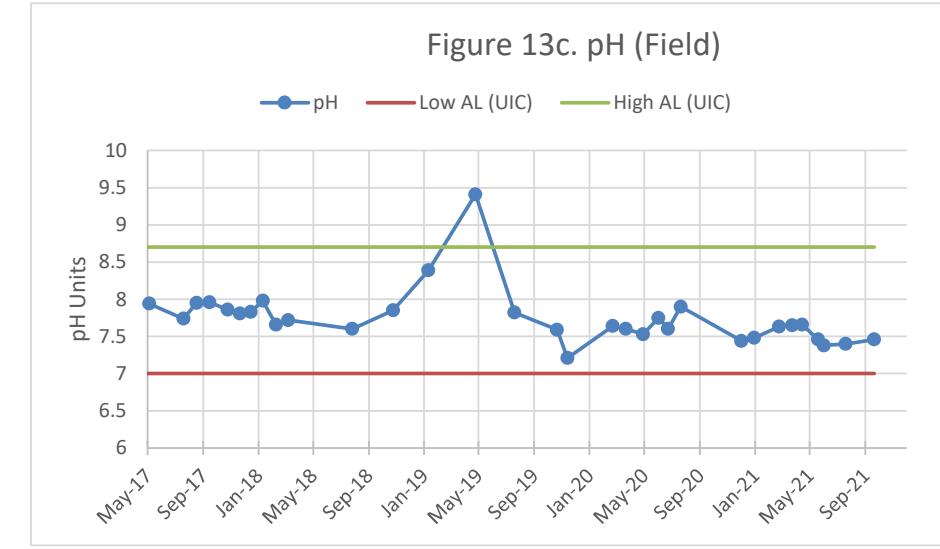
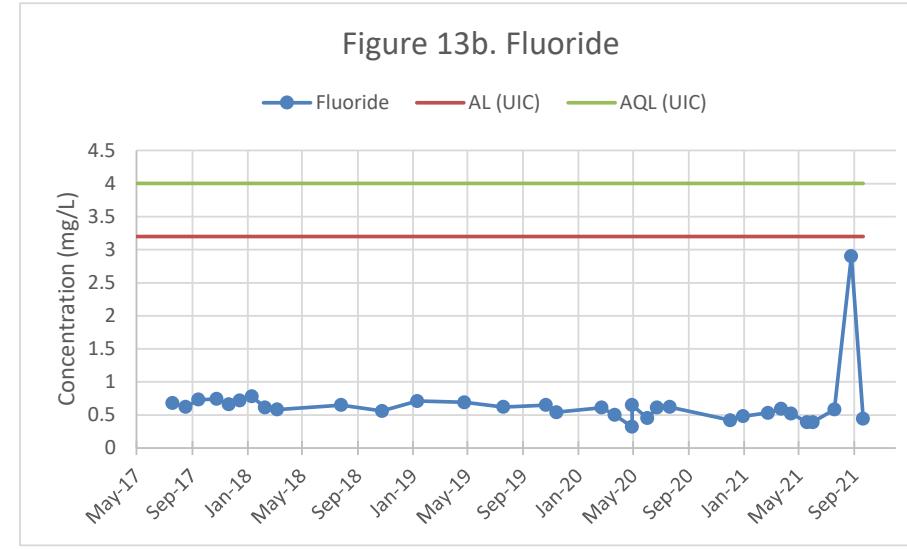
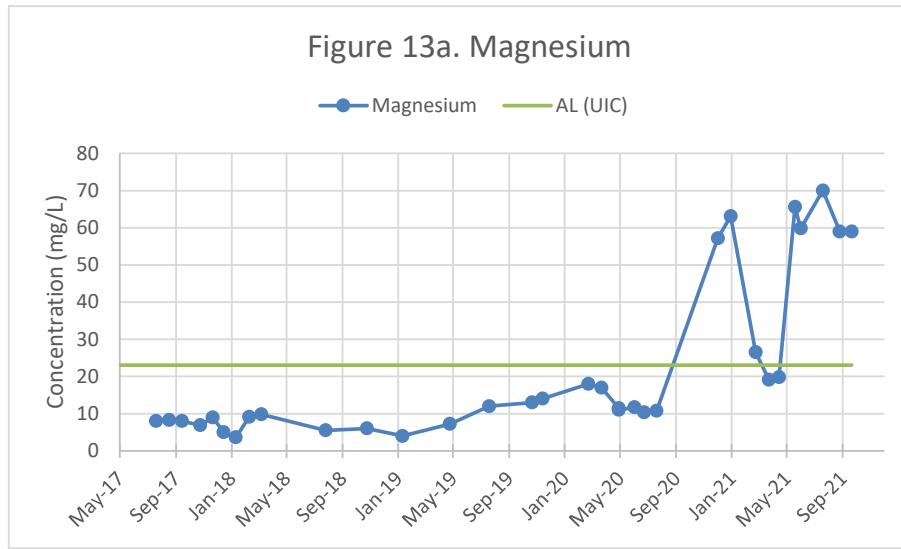
Notes:

AL = Alert level

AQL = Aquifer Quality Limit

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

M59-O QUARTERLY CONCENTRATION GRAPHS



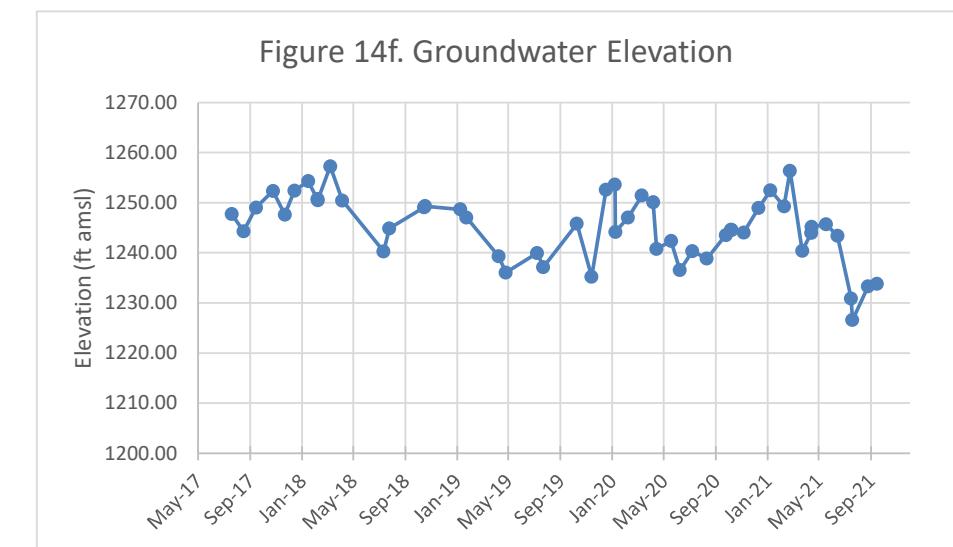
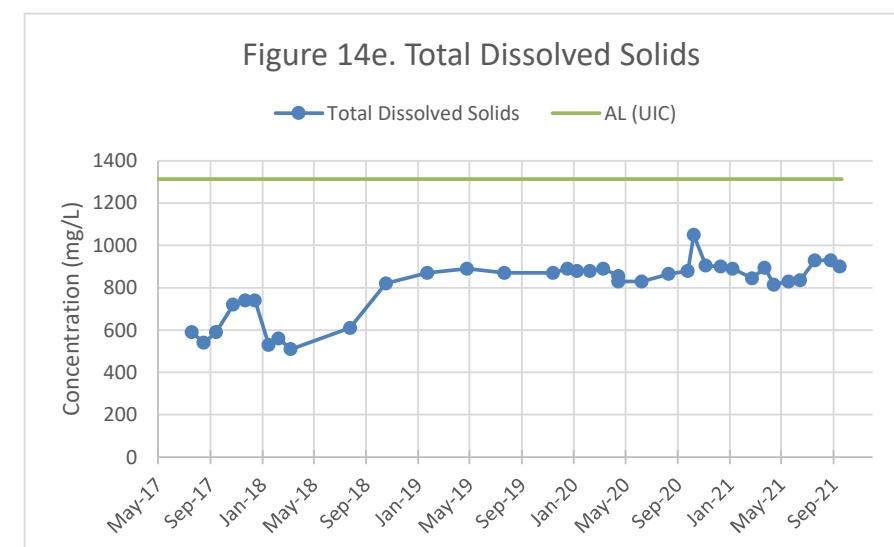
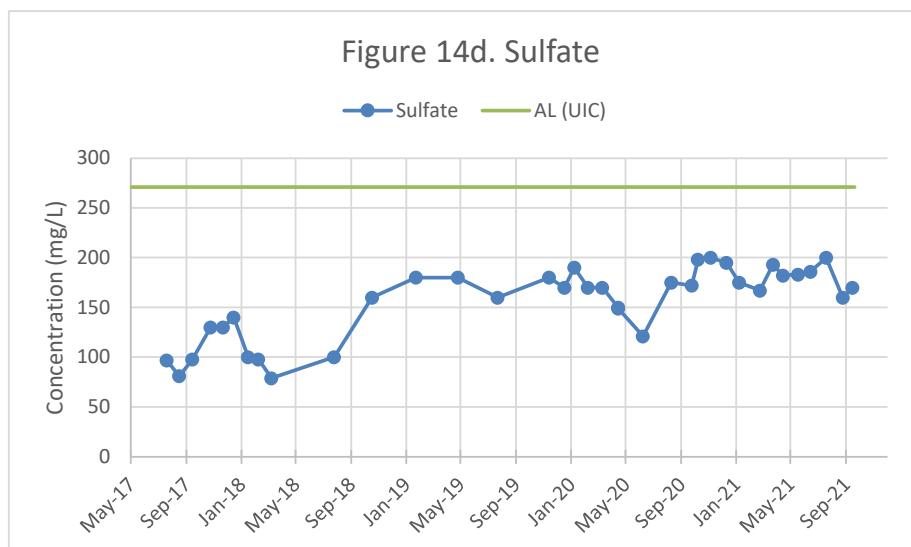
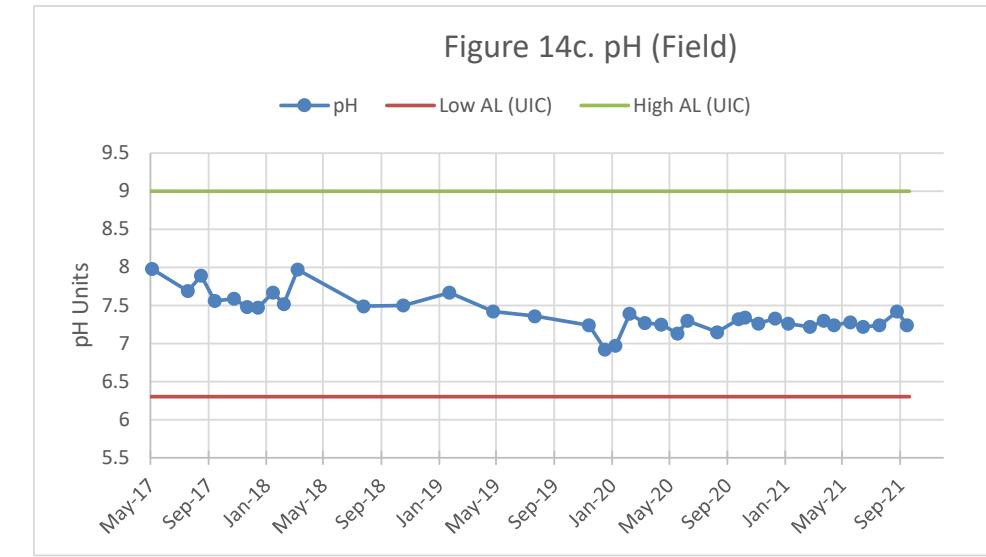
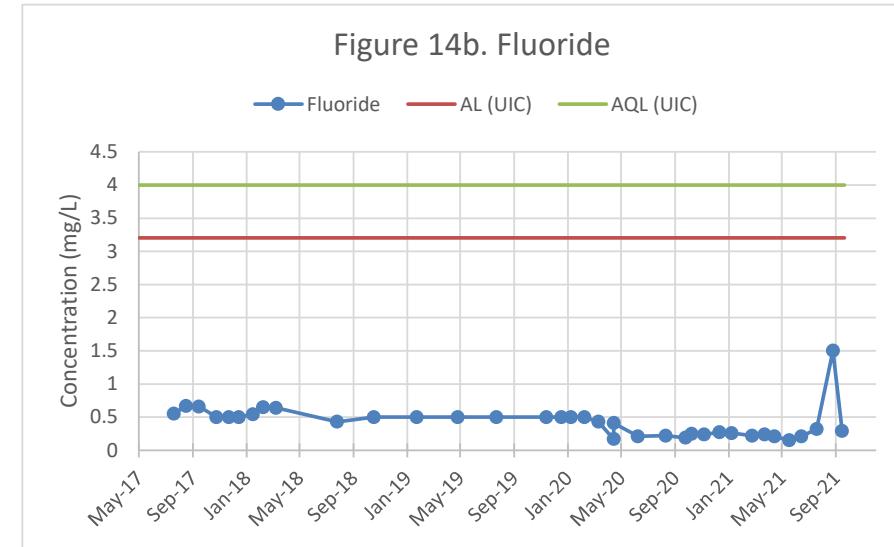
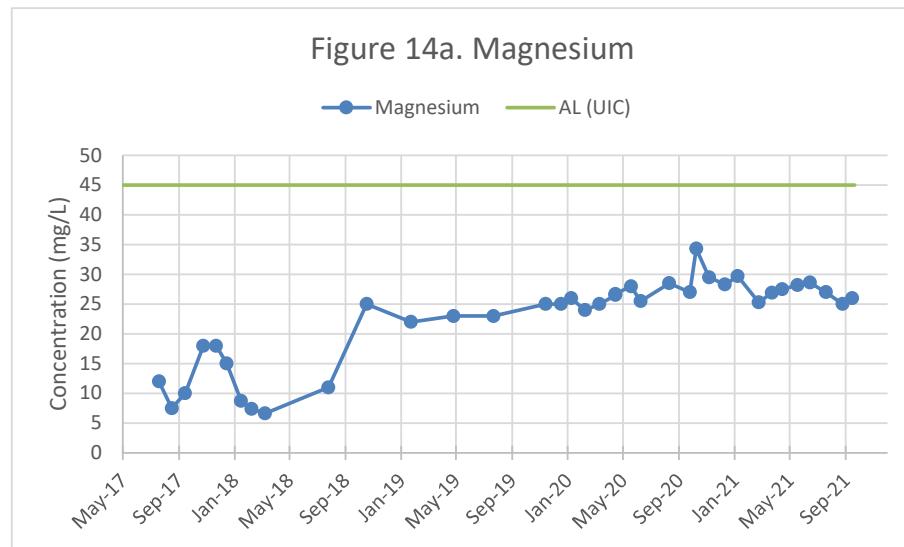
Notes:

AL = Alert level

AQL = Aquifer Quality Limit

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

M60-O QUARTERLY CONCENTRATION GRAPHS



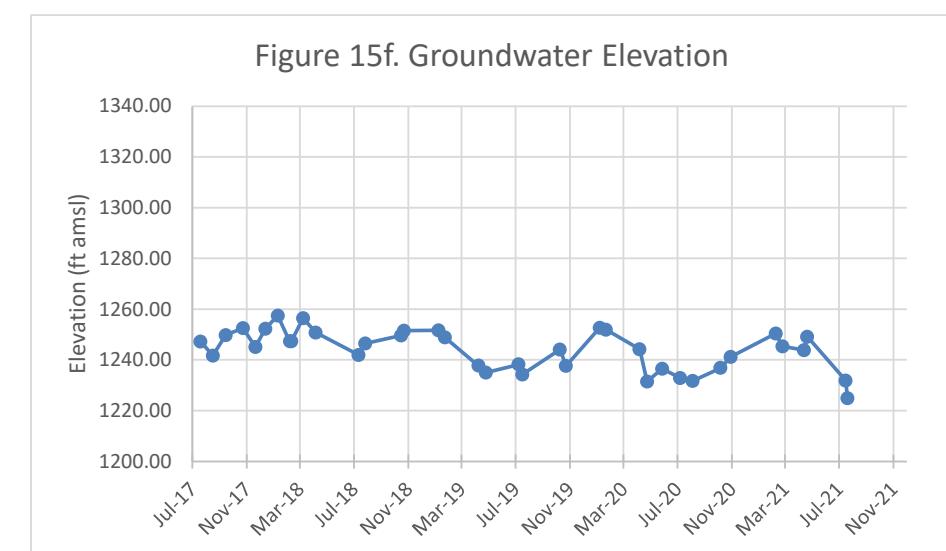
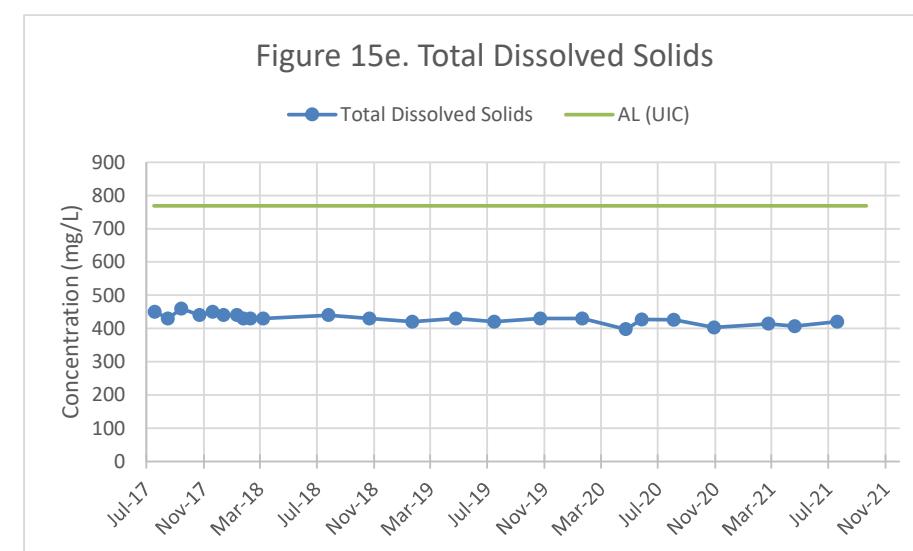
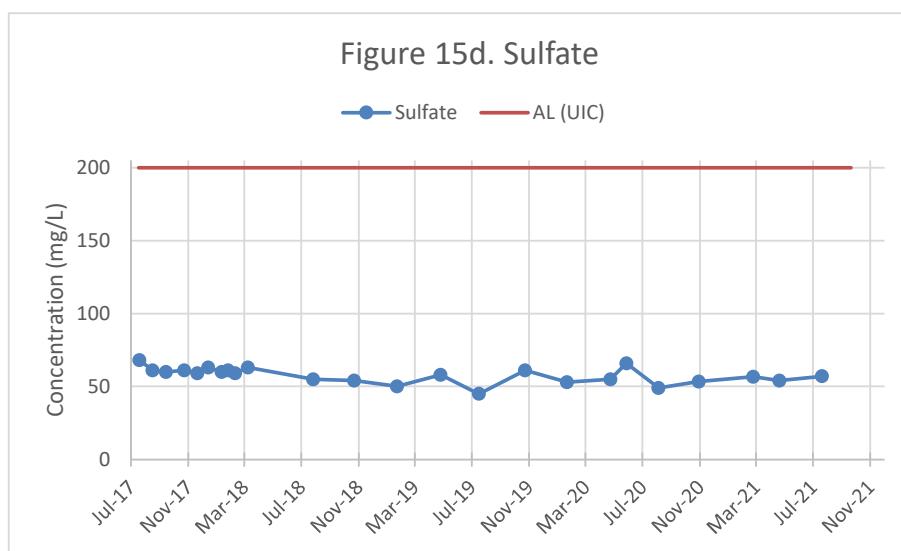
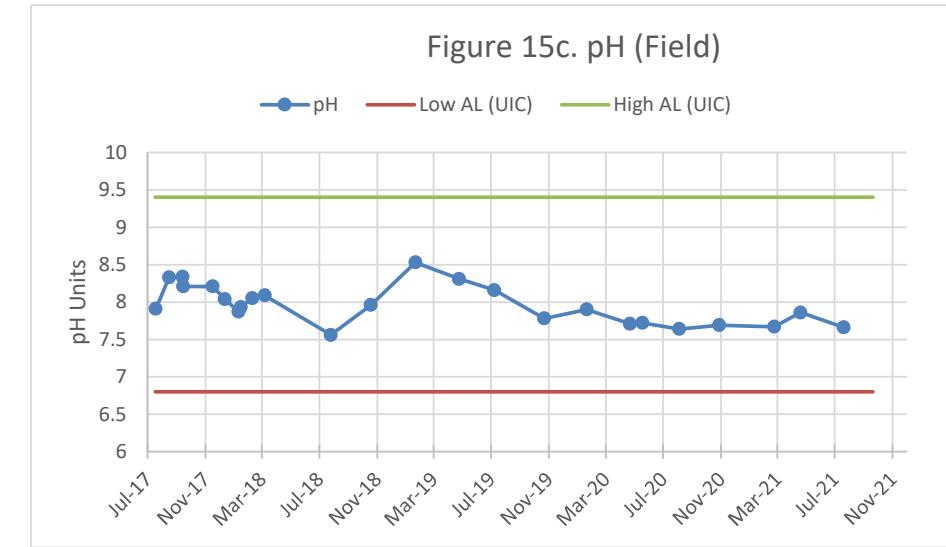
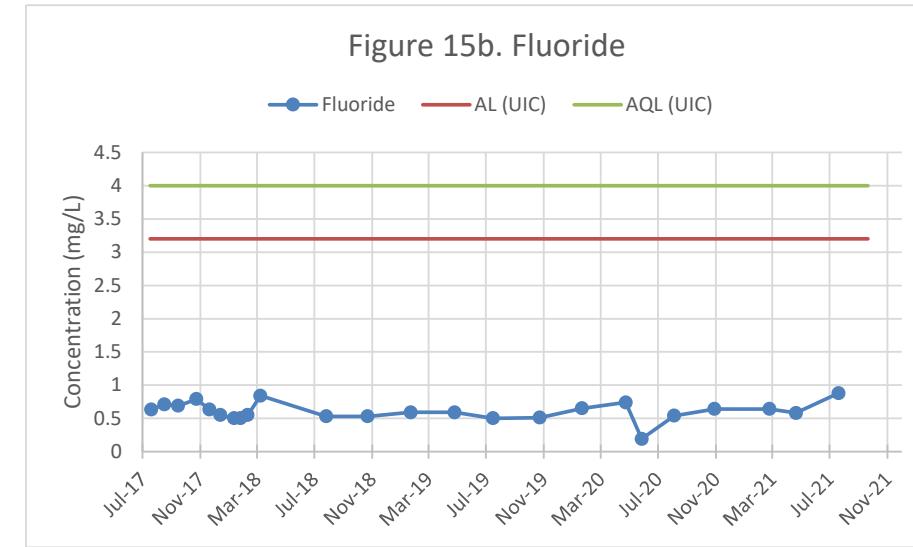
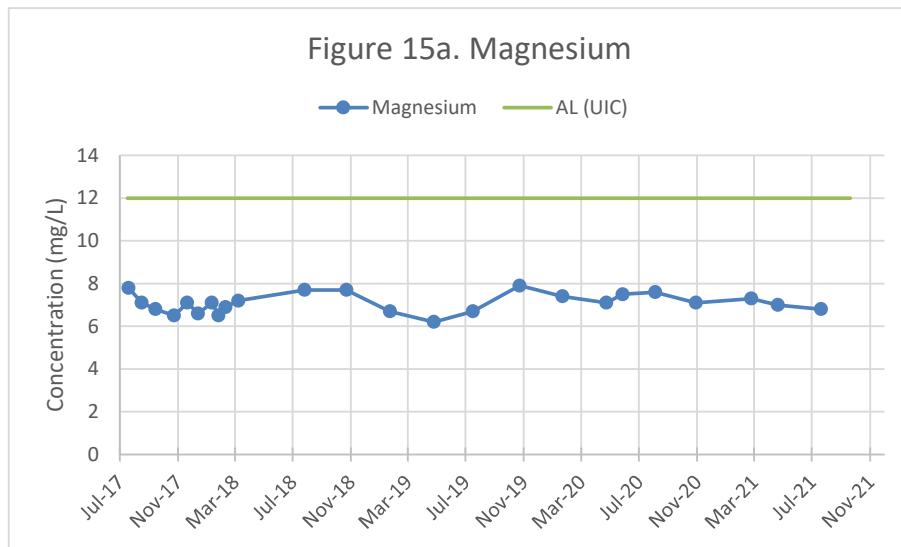
Notes:

AL = Alert level

AQL = Aquifer Quality Limit

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

M61-LBF QUARTERLY CONCENTRATION GRAPHS



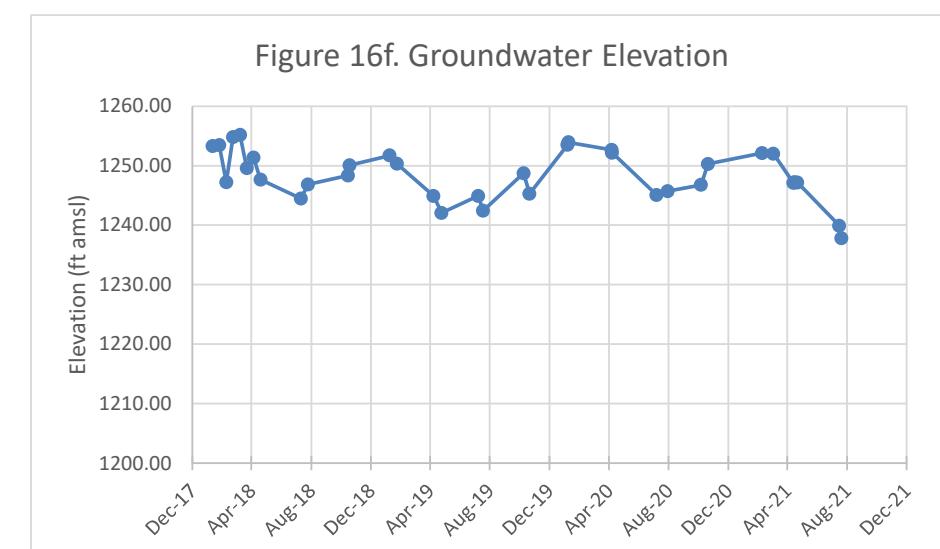
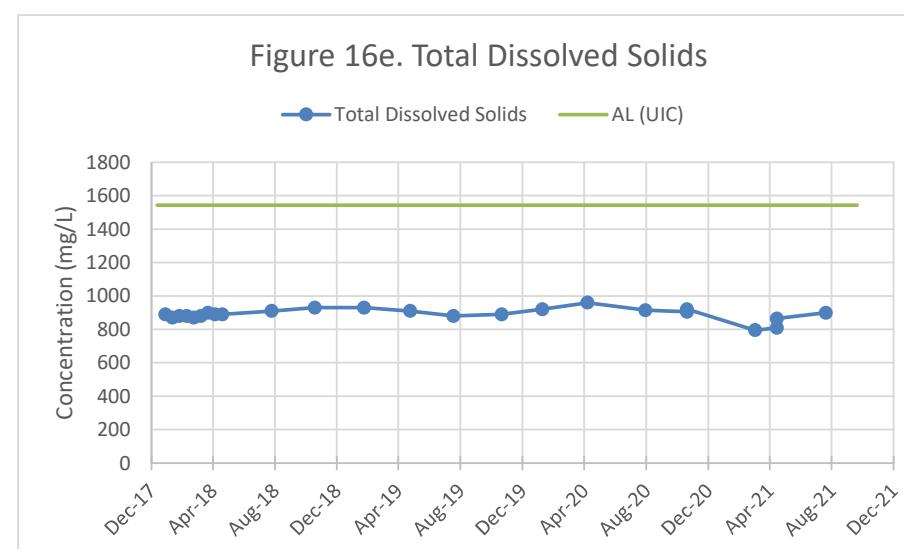
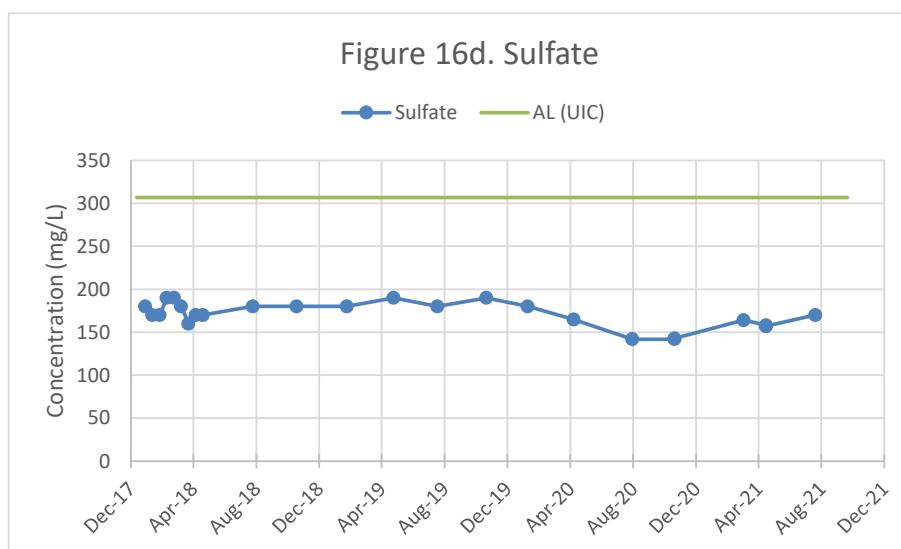
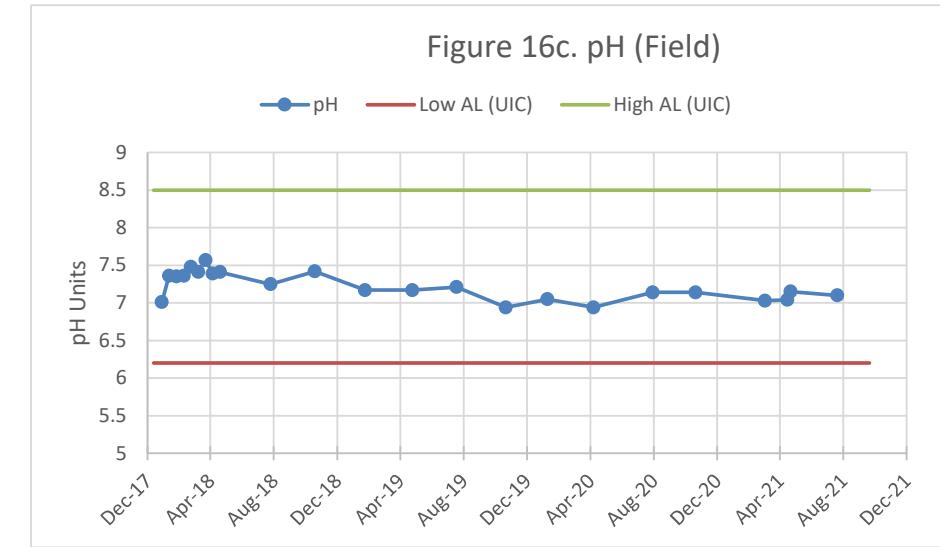
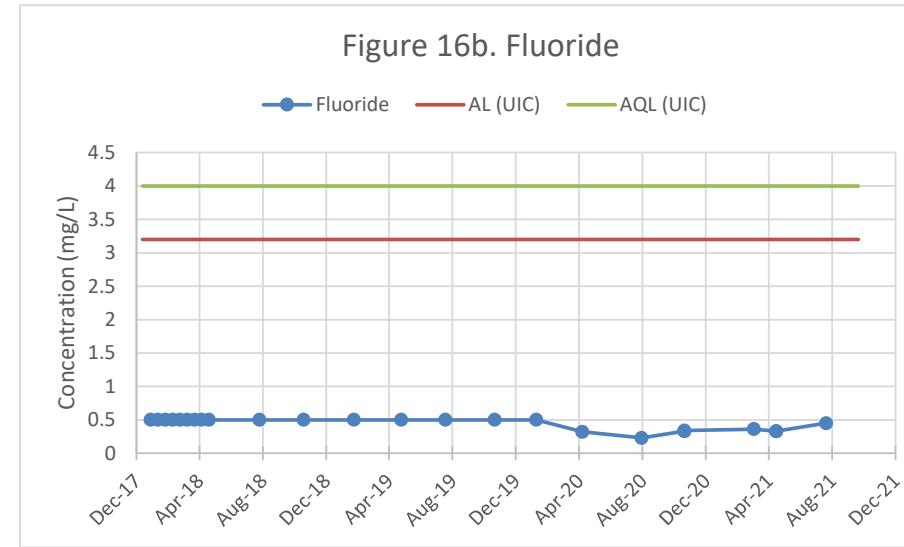
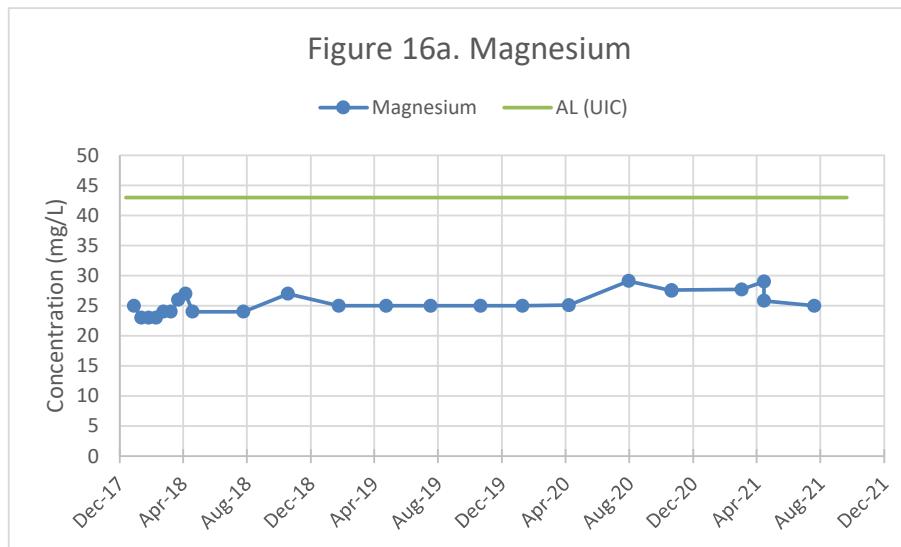
Notes:

AL = Alert level

AQL = Aquifer Quality Limit

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

MW-01-LBF QUARTERLY CONCENTRATION GRAPHS



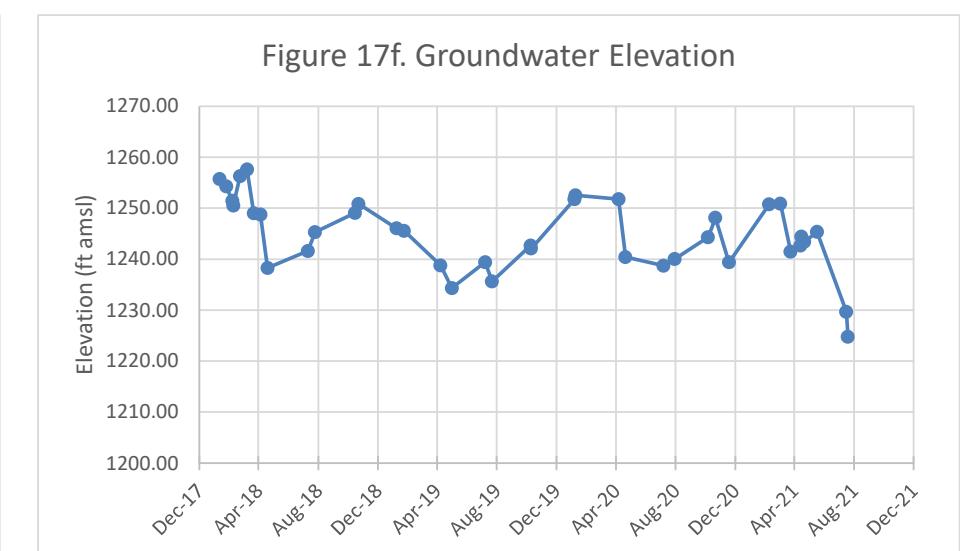
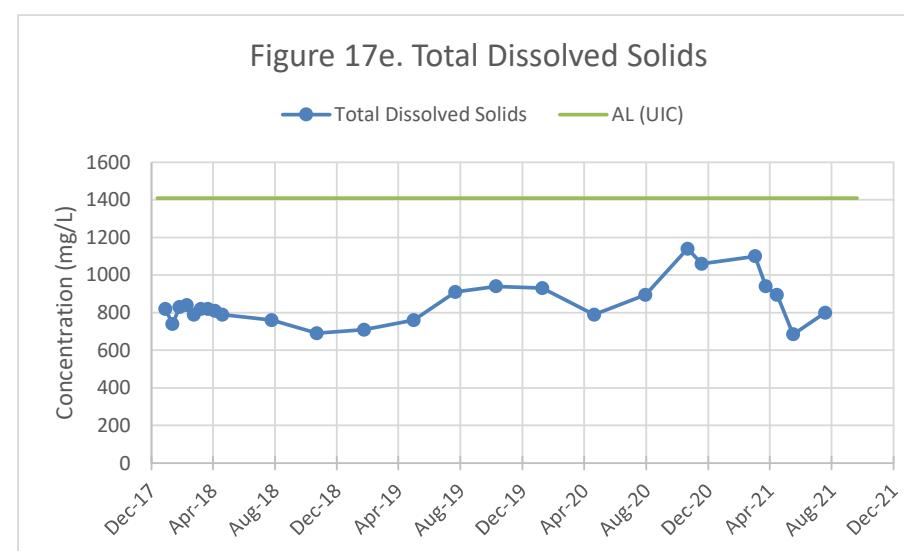
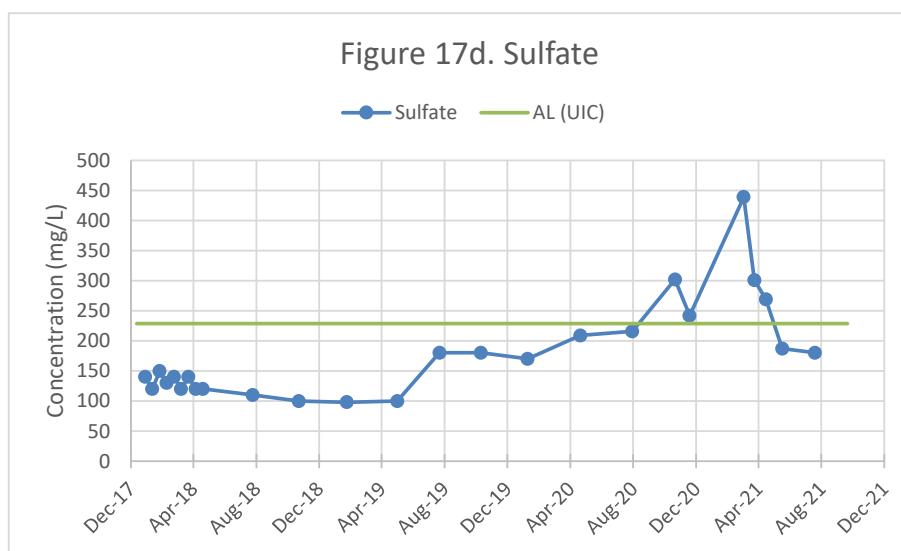
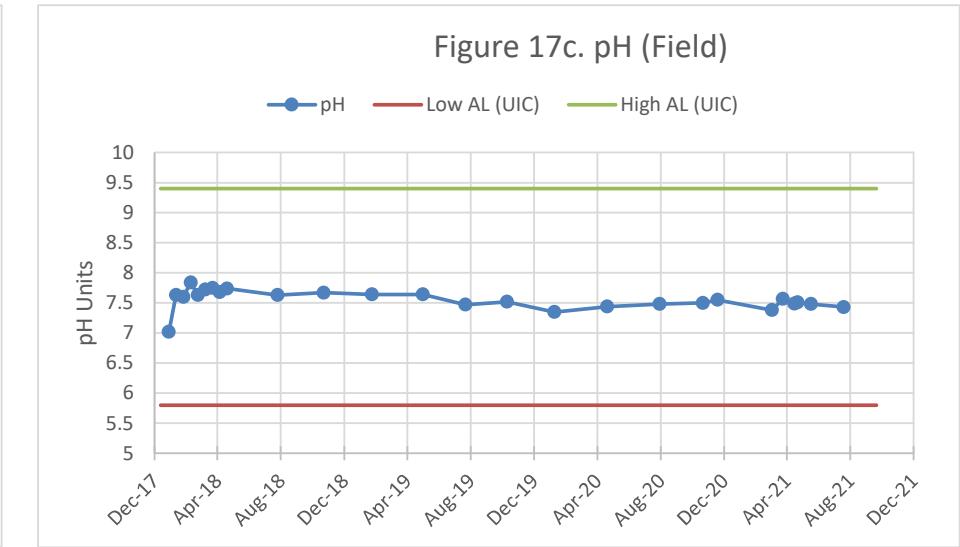
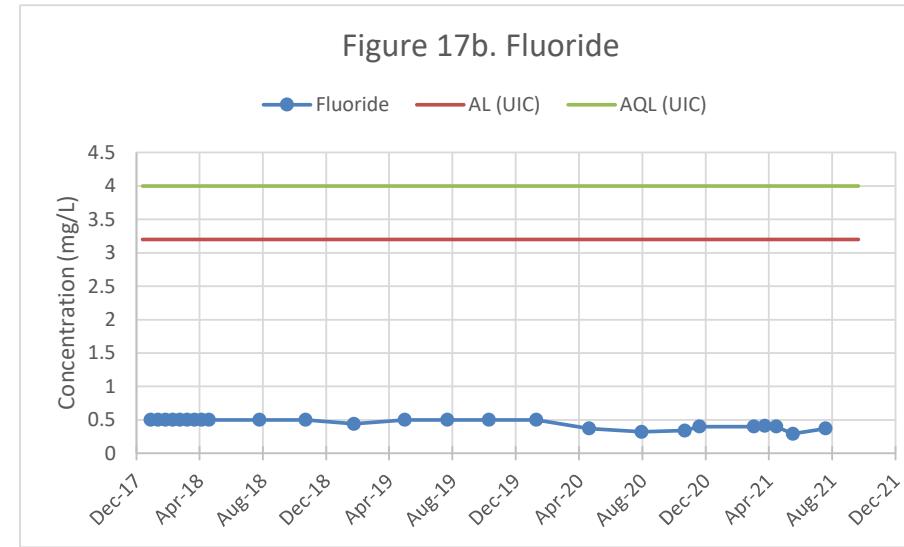
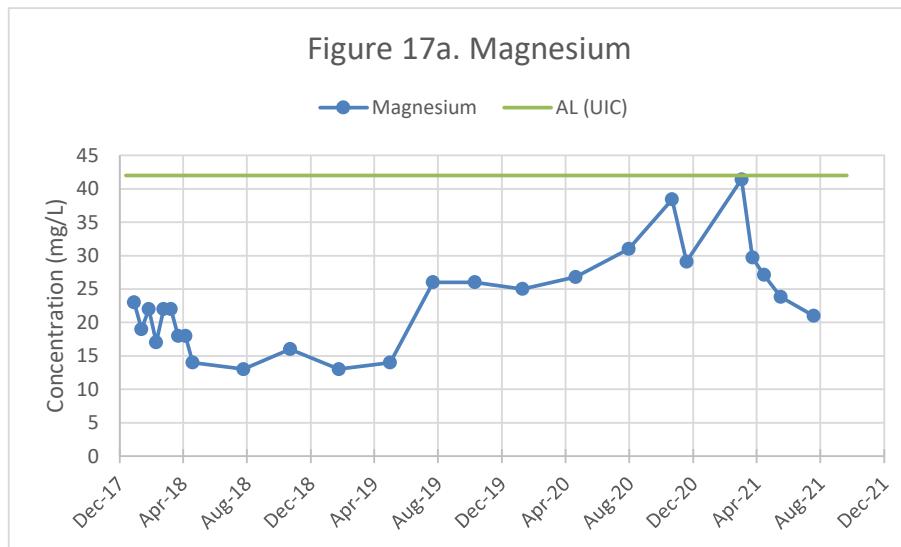
Notes:

AL = Alert level

AQL = Aquifer Quality Limit

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

MW-01-O QUARTERLY CONCENTRATION GRAPHS



Notes:

AL = Alert level

AQL = Aquifer Quality Limit

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

ATTACHMENT 6B

Well Details and Water Level Elevations

TABLE 1
UIC MONITORING WELL DETAILS
FLORENCE COPPER INC.
FLORENCE, ARIZONA

Well ID	Well Type	ADWR #	Total Well Depth (ft bgs)	Latitude	Longitude	Screened Interval (ft bgs)	Aquifer Unit
M14-GL	POC	55-549172	838	33°03'4.0"N	111°26'15.77"W	778-838	LBFU
M15-GU	POC	55-547813	594	33°03'4.04"N	111°26'16.40"W	554-594	LBFU
M22-O	POC	55-555831	1,130	33°03'4.53"N	111°26'15.76"W	932-1,130	OXIDE
M23-UBF	POC	55-555824	250	33°03'4.51"N	111°26'16.50"W	210-250	UBFU
M54-LBF	POC	55-226792	629	33°03'7.07"N	111°26'9.29"W	310-629	LBFU
M54-O	POC	55-226798	1,199	33°03'6.91"N	111°26'9.22"W	668-1,199	OXIDE
M52-UBF	POC	55-226788	274	33°03'11.03"N	111°25'24.66"W	200-274	UBFU
M55-UBF	Monitor	55-226797	261	33°03'1.99"N	111°26'6.18"W	240-261	UBFU
M56-LBF	Monitor	55-226795	340	33°03'2.21"N	111°26'6.44"W	320-340	LBFU
M57-O	Monitor	55-226790	1,200	33°03'1.88"N	111°26'8.39"W	523-1,200	OXIDE
M58-O	Monitor	55-226794	1,200	33°03'5.20"N	111°26'4.94"W	594-1,200	OXIDE
M59-O	Monitor	55-226791	1,200	33°03'1.58"N	111°26'2.25"W	534-1,200	OXIDE
M60-O	Monitor	55-226796	1,201	33°02'58.70"N	111°26'5.78"W	444-1,201	OXIDE
M61-LBF	Monitor	55-226799	630	33°03'0.85"N	111°25'58.92"W	429-630	LBFU
MW-01-LBF	Operational	55-226789	440	33°03'02.9442"N	111°26'07.1046"W	330-440	LBFU
MW-01-O	Operational	55-226793	1,200	33°03'03.045"N	111°26'06.9786"W	500-1,200	OXIDE
New Wells Constructed or Replaced							
M57R-O	Monitor	55-229751	1,200	33°03'0.31"N	111°26'8.16"W	550-1,200	OXIDE

Notes:

ADWR = Arizona Department of Water Resources

APP = Aquifer Protection Permit

ft bgs = feet below ground surface

LBFU = lower basin fill unit

POC = point of compliance

UBFU = upper basin fill unit

UIC = Underground Injection Control

TABLE 2
SUMMARY OF QUARTERLY WATER LEVELS
FLORENCE COPPER INC.
FLORENCE, ARIZONA

Location ID	Date	Depth to Water (feet)	Description of Measuring Point	Elevation of Measuring Point (feet amsl)	Water Level Elevation (feet amsl)
M14-GL	07/16/2021	239.54	TOC	1476.53	1236.99
M14-GL	08/02/2021	NM	TOC	1477.12	NM
M15-GU	07/16/2021	237.58	TOC	1476.53	1238.95
M15-GU	08/02/2021	238.23	TOC	1476.53	1238.30
M22-O	07/16/2021	242.22	TOM	1478.58	1236.36
M22-O	07/21/2021	246.50	TOM	1478.58	1232.08
M23-UBF	07/16/2021	220.80	TOM	1477.61	1256.81
M23-UBF	08/02/2021	220.99	TOM	1477.61	1256.62
M52-UBF	07/16/2021	233.70	TOC	1485.04	1251.34
M52-UBF	07/21/2021	233.75	TOC	1485.04	1251.29
M54-LBF	07/16/2021	240.58	TOC	1481.92	1241.34
M54-LBF	07/21/2021	242.25	TOC	1481.92	1239.67
M54-O	07/16/2021	249.89	TOC	1482.47	1232.58
M54-O	07/21/2021	254.09	TOC	1482.47	1228.38
M55-UBF	07/16/2021	233.65	TOC	1479.14	1245.49
M55-UBF	07/20/2021	233.98	TOC	1479.14	1245.16
M56-LBF	07/16/2021	240.30	TOC	1478.65	1238.35
M56-LBF	07/22/2021	243.35	TOC	1478.65	1235.30
M57-O	07/16/2021	251.23	TOC	1478.71	1227.48
M57-O	07/20/2021	235.49	TOC	1478.71	1243.22
M57R-O	07/16/2021	249.25	TOC	1478.29	1229.04
M57R-O	08/02/2021	251.89	TOC	1478.29	1226.40
M58-O	07/16/2021	248.70	TOC	1482.08	1233.38
M58-O	07/22/2021	253.75	TOC	1482.08	1228.33
M59-O	07/16/2021	258.83	TOC	1480.19	1221.36
M59-O	07/19/2021	NM	TOC	1480.19	NM
M59-O	08/25/2021	NM	TOC	1480.19	NM
M59-O	09/20/2021	248.16	TOC	1480.19	1232.03
M60-O	07/16/2021	246.47	TOC	1477.36	1230.89
M60-O	07/19/2021	250.79	TOC	1477.36	1226.57
M60-O	08/25/2021	244.04	TOC	1477.36	1233.32
M60-O	09/15/2021	243.57	TOC	1477.36	1233.79
M61-LBF	07/16/2021	248.95	TOC	1480.78	1231.83
M61-LBF	07/20/2021	255.88	TOC	1480.78	1224.90
MW-01-LBF	07/16/2021	239.02	TOC	1478.92	1239.90
MW-01-LBF	07/20/2021	241.13	TOC	1478.92	1237.79
MW-01-O	07/16/2021	249.38	TOC	1479.07	1229.69
MW-01-O	07/19/2021	254.30	TOC	1479.07	1224.77
Mine Shaft	07/16/2021	241.39	TOS	1480.40	1239.01
Status of Local Production Wells					
BIA-9R	07/16/2021		Pumping		
BIA-10	07/16/2021		Pumping		
PW2-1	07/16/2021		Pumping		
WW-4	07/16/2021		Not Pumping		

Notes:

amsl = above mean sea level

NM = not measured

TOC = top of casing

TOM = top of monument

TOS = top of stickup

ATTACHMENT 6C

Groundwater Monitoring Summary

TECHNICAL MEMORANDUM

28 October 2021
File No. 133887-012

TO: Florence Copper Inc.
Brent Berg
General Manager

FROM: Haley & Aldrich, Inc.
Laura Menken, R.G.
Technical Specialist
Mark Nicholls, R.G.
Lead Hydrogeologist

SUBJECT: Florence Copper Project, Quarterly Compliance Monitoring Report Underground Injection Control (UIC) Permit, Third Quarter 2021



Haley & Aldrich, Inc. has prepared this memorandum to present the results of the quarterly compliance groundwater monitoring conducted during the third quarter (Q3) 2021 at the Florence Copper Project. The Florence Copper Project is subject to two related permits issued by the Arizona Department of Environmental Quality (ADEQ) and the U.S. Environmental Protection Agency (USEPA).

Aquifer Protection Permit (APP) Covering the 1997-98 BHP Pilot Facilities and Future Operations:

- ADEQ APP No. P-101704 (LTF 88973) dated April 30, 2021.

UIC Permit Covering the Current Production Test Facility:

- USEPA UIC Permit No. R9UIC-AZ3-FY11-1 dated 20 December 2016.

This report presents the results of the Q3 2021 groundwater monitoring activities required by the UIC permit.

Sampling Activities

During Q3 2021, monitoring was conducted at 16 point of compliance, monitoring, and supplemental wells. Water levels were collected on 18 July 2021, and quarterly groundwater sampling was conducted between 19 July and 20 September 2021. Groundwater sampling and analysis was conducted in accordance with the requirements of Part II.F of the UIC permit.

The majority of the monitoring wells are equipped with low-flow bladder pumps. Low-flow sampling was conducted in accordance with Section 2.5.3 of the APP. Wells M14-GL and M22-O were equipped with stainless steel electric submersible pumps and were sampled by purging a minimum of three borehole volumes. No modified sampling procedures were used.

Each sample was labeled, placed in a cooler with ice, maintained at 4 degrees Celsius ($^{\circ}\text{C}$) $\pm 2^{\circ}\text{C}$, and transported under chain of custody to Turner Laboratories, Inc. (Turner) for analysis. Samples were analyzed for the quarterly (Level 1) monitoring parameters in Table 1 of the UIC permit. Sample containers collected for radiological parameter analysis were labelled and transported under chain of custody directly to Radiation Safety Engineering, Inc. who performed the analyses as a subcontractor to the primary laboratory. Note that uranium activity and adjusted gross alpha are analyzed and reported only when gross alpha results exceed 12 picocuries per liter (pCi/L).

Florence Copper Inc. (Florence Copper) has elected to monitor select analytes on a more frequent basis. Additional monitoring of wells M59-O and M60-O was performed during Q3 2021. Samples were analyzed for quarterly (Level 1) monitoring parameters and various radiological parameters as discussed further below.

Results

The results of the Q3 2021 monitoring event are presented in Tables 1 through 4 as follows:

- Table 1 – Q3 2021 Field Parameters;¹
- Table 2 – Q3 2021 Quarterly (Level 1) Analytical Parameters;
- Table 3 – Q3 2021 M59-O Monitoring Summary; and
- Table 4 – Q3 2021 M60-O Monitoring Summary.

The Q3 2021 results were compared to the alert levels (AL) and aquifer quality limits (AQL) listed in the applicable tables in Appendix K of the UIC permit and Table 4B of the document submitted to the USEPA dated 12 December 2018 and entitled *Procedures for Determining Alert Levels and Aquifer Quality Limits for Groundwater Compliance Monitoring*.

A quality assurance/quality control summary of the Q3 2021 data is provided in Appendix A.

¹ Note that turbidity was monitored as a field parameter in addition to field pH, temperature, and specific conductance, but is not required by the APP or UIC permit and is therefore not reported.

Q3 2021 AL AND AQL EXCEEDANCES

The following AL exceedances occurred in Q3 2021, and are described in more detail under the *Contingency Sampling Plans* section:

Well	AL Exceedance	Current Status
M57R-O	Sulfate TDS	Voluntary quarterly monitoring ongoing
M59-O	Magnesium Sulfate TDS Adjusted gross alpha Gross alpha* Gross beta Radium 226 & 228 Total uranium isotopes* Total Uranium	Voluntary monthly monitoring ongoing
M60-O	Adjusted gross alpha Radon	Voluntary monthly monitoring ongoing
Note: AL = alert level TDS = total dissolved solids Florence Copper has elected to monitor select analytes on a more frequent basis. * There is no AL for gross alpha or total uranium isotopes in the UIC Permit		

The following AQL exceedances occurred in Q3 2021, and are described in more detail under the *Contingency Sampling Plans* section:

Well	Aquifer Quality Limit Exceedance
M59-O	Adjusted gross alpha, gross beta, radium
M60-O	Adjusted gross alpha

Contingency Sampling Plans

Contingency sampling plan procedures consistent with Part II.H.2 of the UIC permit were implemented during Q3 2021 when initial sample results for three wells indicated one or more potential AL or AQL exceedances.

Well M57R-O

Though reporting for monitoring well M57R-O is not currently required under any site operation permit, Florence Copper has been voluntarily sampling well M57R-O on a quarterly basis since April 2020. ALs and AQLs for M57R-O were proposed in 2020.

On 19 August 2021, Florence Copper was notified of a potential exceedance of the proposed UIC AL for sulfate and total dissolved solids (TDS) based on the sample taken on 2 August 2021. As discussed above, well M57R-O is not included in permit-required reporting; as such, no further action was taken. A quarterly sample is scheduled to be collected in Q4 2021.

Supplemental Monitoring Well M59-O

Temporary APP No. P-106360 (LTF 80030) dated 13 February 2020 (Temporary APP) expired on 14 December 2020 and was confirmed to be no longer in effect through an ADEQ letter dated 12 February 2021. During Q4 2020, while the Temporary APP was still active, sampling frequency was increased to monthly in accordance with Section 2.6.2.4.1 for magnesium, sulfate, TDS, uranium, gross beta, adjusted gross alpha, and radium 226+228. Monthly sampling was scheduled to begin in February 2021. As of Q1 2021, well M59-O is only monitored under the UIC permit. Since sampling frequency was increased to monthly sampling under the Temporary APP but was not resolved before its expiration, Florence Copper has elected to continue monitoring these analytes monthly. On 6 May 2021, Florence Copper notified the USEPA that M59-O will continue to be monitored monthly and reported within 30 days of receiving the monthly monitoring results.

In Q3 2021, well M59-O was sampled on 19 July, 25 August, and 20 September 2021. Results and exceedances are provided in the table below. All other parameters were below their respective ALs/AQLs in each sample. Florence Copper submitted monthly reports on 20 July, 27 August and 23 September.

Results for Well M59-O				
Date	Parameter	Result	UIC AL	UIC AQL
19 July 2021	Adjusted gross alpha	29.4 ± 3.2 pCi/L	15.8 pCi/L	15.8 pCi/L
25 August 2021		31.3 ± 3.7 pCi/L	15.8 pCi/L	15.8 pCi/L
20 September 2021		24.4 ± 3.4 pCi/L	15.8 pCi/L	15.8 pCi/L
19 July 2021	Gross beta	41.6 ± 3.2 pCi/L	16 pCi/L	16 pCi/L
25 August 2021		36.8 ± 3.1 pCi/L	16 pCi/L	16 pCi/L
20 September 2021		38.6 ± 3.1 pCi/L	16 pCi/L	16 pCi/L
19 July 2021	Radium-226 & 228	15.4 ± 0.7 pCi/L	6.9 pCi/L	6.9 pCi/L
25 August 2021		13.7 ± 0.6 pCi/L	6.9 pCi/L	6.9 pCi/L
20 September 2021		10.3 ± 0.6 pCi/L	6.9 pCi/L	6.9 pCi/L
19 July 2021	Magnesium	70 mg/L	23 mg/L	No AQL
25 August 2021		59 mg/L	23 mg/L	No AQL
20 September 2021		59 mg/L	23 mg/L	No AQL
19 July 2021	Sulfate	1,200 mg/L	202 mg/L	No AQL
25 August 2021		1,100 mg/L	202 mg/L	No AQL
20 September 2021		990 mg/L	202 mg/L	No AQL
19 July 2021	TDS	2,300 mg/L	854 mg/L	No AQL
25 August 2021		2,100 mg/L	854 mg/L	No AQL
20 September 2021		990 mg/L	854 mg/L	No AQL
19 July 2021	Total Uranium	0.0187 mg/L	0.0052 mg/L	No AQL
25 August 2021		0.0326 mg/L	0.0052 mg/L	No AQL
20 September 2021		0.032 mg/L	0.0052 mg/L	No AQL

Notes:

Bold = Exceedances

mg/L = milligrams per liter

UIC = Underground Injection Control

AL = alert level

pCi/L = picocuries per liter

AQL = aquifer quality limit

TDS = total dissolved solids

Florence Copper will continue voluntary monthly monitoring and reporting until analytes are below their respective ALs and AQLs, including total uranium.

Supplemental Monitoring Well M60-O

Monthly monitoring of gross alpha at well M60-O began in January 2020 due to a Temporary APP AL exceedance of gross alpha confirmed in Q4 2019. The Temporary APP expired on 14 December 2020 and was confirmed to be no longer in effect through an ADEQ letter dated 12 February 2021. As of Q1 2021, well M60-O is only permitted under the UIC permit. Since sampling frequency was increased to monthly sampling under the Temporary APP but was not resolved before its expiration, Florence Copper has elected to continue monitoring these analytes monthly.

On 3 June 2021, Florence Copper notified the USEPA that well M60-O will continue to be monitored monthly and reported within 30 days of receiving the monthly monitoring results.

In Q3 2021, well M60-O was sampled on 19 July, 25 August, and 15 September 2021. Results and exceedances are provided in the table below. All other parameters were below their respective ALs/AQLs in each sample. Florence Copper submitted monthly reports on 2 July, 3 August and 1 September.

Results for Well M60-O				
Date	Parameter	Result	UIC AL	UIC AQL
19 July 2021	Adjusted gross alpha	$22.4 \pm 2.8 \text{ pCi/L}$	17.4 pCi/L	17.4 pCi/L
25 August 2021		$10.9 \pm 4.3 \text{ pCi/L}$	17.4 pCi/L	17.4 pCi/L
19 September 2021		$14.9 \pm 2.8 \text{ pCi/L}$	17.4 pCi/L	17.4 pCi/L
19 July 2021	Radon	$3,465.5 \pm 347.5 \text{ pCi/L}$	2,480 pCi/L	2,480 pCi/L
25 August 2021		$3,066.1 \pm 307.7 \text{ pCi/L}$	2,480 pCi/L	2,480 pCi/L
19 September 2021		$2,991 \pm 299.9 \text{ pCi/L}$	2,480 pCi/L	2,480 pCi/L

Notes:

Bold = Exceedances
AL = alert level
AQL = aquifer quality limit
pCi/L = picocuries per liter
UIC = Underground Injection Control

In response to the August and September adjusted gross alpha results being below the UIC AL and AQL, Florence Copper plans to discontinue monthly sampling of adjusted gross alpha starting in Q4 2021. Florence Copper will continue voluntary monthly monitoring and reporting of Level I parameters and radon until radon is below its respective AL and AQL.

Florence Copper Inc.

28 October 2021

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Enclosures:

Table 1 – Q3 2021 Field Parameters

Table 2 – Q3 2021 Quarterly (Level 1) Analytical Parameters

Table 3 – Q3 2021 M59-O Monitoring Summary

Table 4 – Q3 2021 M60-O Monitoring Summary

Appendix A – Data Quality Assurance/Quality Control Summary Memorandum

TABLES

TABLE 1**Q3 2021 FIELD PARAMETERS**

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Location	Sample Date	Temperature, Field Deg C	Temperature, Field Deg F	pH, Field pH units	pH Low UIC Alert Level pH units	pH High UIC Alert Level pH units	Specific Conductance, Field μmhos/cm
M14-GL	08/02/2021	27.2	81.0	8.26	NE	NE	855
M15-GU	08/02/2021	24.9	76.8	7.16	NE	NE	1,490
M22-O	07/21/2021	28.7	83.7	8.09	NE	NE	808
M23-UBF	08/02/2021	25.4	77.7	7.07	NE	NE	2,020
M52-UBF	07/21/2021	29.7	85.5	7.04	6.9	7.9	1,506
M54-LBF	07/21/2021	27.5	81.5	7.03	6.5	8.2	1,545
M54-O	07/21/2021	28.4	83.1	7.64	6.8	9.4	755
M55-UBF	07/20/2021	28.7	83.7	6.97	6.6	7.8	1,843
M56-LBF	07/22/2021	27.8	82.0	7.10	6.5	8.3	1,634
M57-O	07/20/2021	27.1	80.8	7.71	7.2	8.5	887
M57R-O	08/02/2021	27.6	81.7	7.44	7.2	8.5	2,291
M58-O	07/22/2021	28.4	83.1	7.25	6.2	9.0	1,707
M59-O	07/19/2021	27.3	81.1	7.40	7.0	8.7	3,051
M59-O ⁽¹⁾	08/25/2021	26.7	80.1	--	7.0	8.7	2,426
M59-O ⁽¹⁾	09/20/2021	26.6	79.9	7.46	7.0	8.7	2,537
M60-O	07/19/2021	27.4	81.3	7.24	6.3	9.0	1,631
M60-O ⁽²⁾	08/25/2021	29.0	84.2	7.42	6.3	9.0	1,579
M60-O ⁽²⁾	09/15/2021	27.0	80.6	7.24	6.3	9.0	1,588
M61-LBF	07/20/2021	29.4	84.9	7.66	6.8	9.4	765
MW-01-LBF	07/20/2021	27.1	80.8	7.10	6.2	8.5	1,532
MW-01-O	07/19/2021	28.8	83.8	7.43	5.8	9.4	1,442

Notes:

(1) Increased frequency monitoring conducted on 8/25/2021 and 9/20/2021.

(2) Increased frequency monitoring conducted on 8/25/2021 and 9/15/2021.

μmhos/cm = micromhos per centimeter

Deg C = degrees Celsius

Deg F = degrees Fahrenheit

NE = not established

UIC = Underground Injection Control

TABLE 2

Q3 2021 QUARTERLY (LEVEL 1) ANALYTICAL PARAMETERS

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Location ID	Sample Date	Sample Type	Magnesium, Dissolved		Sulfate		Fluoride			Total Dissolved Solids (TDS)	
			Concentration	UIC Alert Level	Concentration	UIC Alert Level	Concentration	UIC Alert Level	UIC AQL	Concentration	UIC Alert Level
M14-GL	08/02/2021	Primary	2.0 J	23	56	144	0.57	3.2	4.0	400	874
M14-GL	08/02/2021	Duplicate	2.0 J	23	56	144	0.59	3.2	4.0	380	874
M15-GU	08/02/2021	Primary	24	44	86	126	< 0.29	3.2	4.0	800	1359
M22-O	07/21/2021	Primary	6.2	8.6	55	86	0.97	3.2	4.0	410	1094
M22-O	07/21/2021	Duplicate	6.1	8.6	48	86	0.97	3.2	4.0	410	1094
M23-UBF	08/02/2021	Primary	28	69	230	411	0.73	3.2	4.0	1,100	2392
M52-UBF	07/21/2021	Primary	23	41	160	316	0.69	3.2	4.0	850	1502
M54-LBF	07/21/2021	Primary	22	42	160	297	0.68	3.2	4.0	850	1561
M54-O	07/21/2021	Primary	5.7	10	47	200	0.66	3.2	4.0	390	771
M55-UBF	07/20/2021	Primary	28	45	220	425	0.78	3.2	4.0	1,100	1711
M56-LBF	07/22/2021	Primary	24	41	160	281	< 0.29	3.2	4.0	890	1485
M57-O	07/20/2021	Primary	11	18	110	200	0.85	3.2	4.0	520	842
M57R-O	08/02/2021	Primary	34	35	580	230	0.57	3.2	4.0	1,300	1113
M58-O	07/22/2021	Primary	22	51	190	385	0.41 J	3.2	4.0	960	1539
M59-O	07/19/2021	Primary	70	23	1,200	202	0.58	3.2	4.0	2,300	854
M59-O ⁽¹⁾	08/25/2021	Primary	59	23	1,100	202	< 2.9	3.2	4.0	2,100	854
M59-O ⁽¹⁾	09/20/2021	Primary	59	23	990	202	0.44 J	3.2	4.0	2,000	854
M60-O	07/19/2021	Primary	27	45	200	271	0.32 J	3.2	4.0	930	1314
M60-O ⁽²⁾	08/25/2021	Primary	25	45	160	271	< 1.5	3.2	4.0	930	1314
M60-O ⁽²⁾	09/15/2021	Primary	26	45	170	271	< 0.29	3.2	4.0	900	1314
M61-LBF	07/20/2021	Primary	6.8	12	57	200	0.88	3.2	4.0	420	769
MW-01-LBF	07/20/2021	Primary	25	43	170	307	0.45 J	3.2	4.0	900	1543
MW-01-O	07/19/2021	Primary	21	42	180	229	0.37 J	3.2	4.0	800	1409
Arizona Aquifer Water Quality Standard ⁽³⁾			--	--	--	--	4.0	--	--	--	--

Notes:

(1) Increased frequency monitoring conducted on 8/25/2021 and 9/20/2021.

(2) Increased frequency monitoring conducted on 8/25/2021 and 9/15/2021.

(3) Arizona Aquifer Water Quality Standard (AWQS), Drinking Water Standard, 31 December 2016.

Alert Level Exceedance

All results in milligrams per liter (mg/L)

Detects are **bolded**

Non-detects are reported to the laboratory method detection limit (< MDL)

AQL = Aquifer Quality Limit

UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY11-1

TABLE 3
Q3 2021 M59-O MONITORING SUMMARY
FLORENCE COPPER INC.
FLORENCE, ARIZONA

Parameter	Unit	UIC Alert Level	UIC AQL	M59-O	M59-O	M59-O
				07/19/2021	08/25/2021	09/20/2021
				Primary	Primary	Primary
Level 1 Parameters						
Magnesium, Dissolved	mg/L	23	--	70	59	59
Sulfate	mg/L	202	--	1,200	1,100	990
Fluoride	mg/L	3.2	4	0.58	< 2.9	0.44 J
Total Dissolved Solids (TDS)	mg/L	854	--	2,300	2,100	2,000
Inorganic Parameters						
Uranium, Total	mg/L	0.0052	--	--	--	0.032
Radionuclide Parameters						
Gross Alpha Analytes	pCi/L	--	--	42.5 ± 2	54.1 ± 1.8	41.1 ± 3.1
Gross Alpha Analytes Adjusted	pCi/L	15.8	15.8	29.4 ± 3.2	31.3 ± 3.7	24.4 ± 3.4
Gross Beta Analytes	pCi/L	16	16	41.6 ± 3.2	36.8 ± 3.1	38.6 ± 3.1
Radium-226	pCi/L	--	--	10.6 ± 0.5	9.7 ± 0.5	6.5 ± 0.4
Radium-226 & 228	pCi/L	6.9	6.9	15.4 ± 0.7	13.7 ± 0.6	10.3 ± 0.6
Radium-228	pCi/L	--	--	4.8 ± 0.5	4.0 ± 0.4	3.8 ± 0.4
Total Uranium	pCi/L	--	--	13.1 ± 2.5	22.8 ± 3.2	16.7 ± 1.4
Uranium-234	pCi/L	--	--	6.5 ± 1.3	11.4 ± 1.7	8.4 ± 0.7
Uranium-235	pCi/L	--	--	0.291 ± 0.009	0.507 ± 0.011	0.370 ± 0.005
Uranium-238	pCi/L	--	--	6.2 ± 1.2	10.9 ± 1.6	7.9 ± 0.7
Total Uranium Content	ug/L	--	--	18.7 ± 3.6	32.6 ± 4.7	23.8 ± 2
Uranium-234	ug/L	--	--	0.00105 ± 0.0002	0.00183 ± 0.00027	0.00135 ± 0.00011
Uranium-235	ug/L	--	--	0.136 ± 0.004	0.237 ± 0.005	0.173 ± 0.002
Uranium-238	ug/L	--	--	18.6 ± 3.6	32.4 ± 4.7	23.6 ± 2

Notes:

Alert Level Exceedance

Detects are **bolded**

Non-detects are reported to the laboratory method detection limit (< MDL)

µg/L = micrograms per liter

AQL = Aquifer Quality Limit

mg/L = milligrams per liter

pCi/L = picocuries per liter

UIC = Underground Injection Permit No. R9UIC-AZ3-FY11-1

TABLE 4
Q3 2021 M60-O MONITORING SUMMARY
FLORENCE COPPER INC.
FLORENCE, ARIZONA

Parameter	Units	UIC Alert Level	UIC AQL	M60-O	M60-O	M60-O
				07/19/2021	08/25/2021	09/15/2021
				Primary	Primary	Primary
Level 1 Parameters						
Magnesium, Dissolved	mg/L	45	--	27	25	26
Sulfate	mg/L	271	--	200	160	170
Fluoride	mg/L	3.2	4.0	0.32 J	< 1.5	< 0.29
Total Dissolved Solids (TDS)	mg/L	1314	--	930	930	900
Radionuclide Parameters						
Gross Alpha Analytes	pCi/L	--	--	58.4 ± 1.9	45.5 ± 1.6	42.6 ± 2.2
Gross Alpha Analytes Adjusted	pCi/L	17.4	17.4	22.4 ± 2.8	10.9 ± 4.3	14.9 ± 2.8
Radon-222	pCi/L	2480	--	3,465.5 ± 347.5	3,066.1 ± 307.7	2,991 ± 299.9
Total Uranium	pCi/L	--	--	36 ± 2.1	34.6 ± 4	27.7 ± 1.8
Uranium-234	pCi/L	--	--	18.0 ± 1.1	20.3 ± 2.2	14.8 ± 1
Uranium-235	pCi/L	--	--	0.802 ± 0.007	0.636 ± 0.013	0.574 ± 0.006
Uranium-238	pCi/L	--	--	17.2 ± 1	13.6 ± 1.8	12.3 ± 0.9
Total Uranium Content	µg/L	--	--	51.6 ± 3.1	40.9 ± 5.3	36.9 ± 2.5
Uranium-234	µg/L	--	--	0.0029 ± 0.00017	0.00326 ± 0.00035	0.00238 ± 0.00016
Uranium-235	µg/L	--	--	0.375 ± 0.003	0.297 ± 0.006	0.268 ± 0.003
Uranium-238	µg/L	--	--	51.3 ± 3.1	40.6 ± 5.3	36.7 ± 2.5

Notes:

Alert Level Exceedance

Detects are **bolded**

Non-detects are reported to the laboratory method detection limit (< MDL)

µg/L = micrograms per liter

AQL = Aquifer Quality Limit

mg/L = milligrams per liter

pCi/L = picocuries per liter

UIC = Underground Injection Permit No. R9UIC-AZ3-FY11-1

APPENDIX A

Data Quality Assurance/Quality Control Summary Memorandum



HALEY & ALDRICH, INC.
One Arizona Center
400 E. Van Buren St., Suite 545
Phoenix, AZ 85004
602.760.2450

MEMORANDUM

28 October 2021
File No. 133887-012

TO: Haley & Aldrich, Inc.
Laura Menken, R.G.

FROM: Haley & Aldrich, Inc.
Alexis Rainery, Engineer
Katherine Miller, Project Manager

SUBJECT: Appendix A – Data Quality Assurance/Quality Control Summary

Analytical results for environmental samples collected during the third quarter 2021 compliance monitoring event were verified in accordance with guidance provided by the U.S. Environmental Protection Agency (USEPA).¹ For each laboratory data package, the following quality control/quality assurance criteria from the analysis of the project samples were reviewed:

- Completeness with the chain of custody (COC);
- Comparison of reporting limits to alert levels (AL) and aquifer quality limits (AQL);
- Holding times/preservation;
- Blank sample analysis;
- Laboratory control samples;
- Matrix spike samples;
- Laboratory and field duplicate sample analysis; and
- Verification of laboratory report data.

Sample data were qualified by the laboratory in accordance with laboratory standard operating procedures (SOP). Based on a check of the data qualifiers assigned to the project sample results, these flags were applied to the reported results in accordance with the laboratory-specific SOP.

¹ USEPA, 2012. USEPA Region 9 Guidance for Quality Assurance Program Plans, R9QA/03.2. March.

COMPLETENESS WITH CHAIN OF CUSTODY

Samples were collected, preserved, and shipped following standard COC protocol. Samples were also received appropriately, identified correctly, and analyzed according to the COC. COCs were appropriately signed and dated by the field and/or laboratory personnel. The following exceptions were noted:

- Laboratory report 21GH0753 was revised on 15 October 2021 to provide reanalysis of fluoride for M59-O.

REPORTING LIMITS

The reporting limits and/or method detection limits were at or below the applicable ALs and AQLs.

HOLDING TIMES/PRESERVATION

The samples arrived at the laboratory at the proper temperature and were prepared and analyzed within the holding time and preservation criteria specified as per each method's protocol with the following exceptions:

- All samples analyzed for pH by method SM 4500-H+B were analyzed outside the hold time by the laboratory per client request.

Laboratory Report	Method	Matrix	Holding Time	Preservation	Sample ID, Violation, Qualification
21H0753	USEPA 300.0	Water	28 days	Cool to $\leq 6^{\circ}\text{C}$	Fluoride by method USEPA 300.0 was reanalyzed outside the 30-day hold time for the following sample: M59-O-082521 Original analysis showed non-detect results with a reporting limit above the applicable ALs. Reanalysis showed non-detect results with a reporting limit below the applicable ALs.

BLANK SAMPLE ANALYSIS

Method blank samples had no detections, indicating that no contamination from laboratory activities occurred.

LABORATORY CONTROL AND MATRIX SPIKE SAMPLES

Compounds associated with the laboratory control sample, matrix spike, and matrix spike duplicate analyses exhibited recoveries and relative percent differences (RPD) within the specified limits.

LABORATORY AND FIELD DUPLICATE SAMPLES

The RPDs for laboratory duplicate analysis were all below 20 percent for water (or the absolute difference rule was satisfied if detects were less than 5 times the reporting limit).

The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. The following samples were collected for field duplicate analysis and the RPDs were all below 35 percent for water (or the absolute difference rule was satisfied if detects were less than 5 times the reporting limit).

Primary Sample ID	Duplicate Sample ID	Methods for Which Field Duplicates Were Analyzed
M14-GL-080221	MW-105-080221	Anions by USEPA 300.0 Metals by USEPA 200.7 Total dissolved solids by SM 2540C
M22-O-072121	MW-101-GW-072121	
<p>Notes: <i>SM = Standard Method</i> <i>USEPA = U.S. Environmental Protection Agency</i></p>		

VERIFICATION OF LABORATORY REPORT DATA

A minimum of 10 percent of the data reported by the laboratory were verified against the electronic data deliverables.

ATTACHMENT 7

Results of Monthly Lixiviant Organic Analysis

TABLE 1
MONTHLY LIXIVIANT (RAFFINATE) MONITORING RESULTS
FLORENCE COPPER INC.
FLORENCE, ARIZONA

Analyte	Units	Sample Date		
		7/19/2021	8/25/2021	9/15/2021
Benzene	mg/L	<0.0005	<0.0005	<0.0005
Ethylbenzene	mg/L	<0.0005	<0.0005	<0.0005
Naphthalene	mg/L	<0.002	<0.002	<0.002
n-Octane	mg/L	<0.0005	<0.0005	<0.0005
Toluene	mg/L	<0.0005	<0.0005	<0.0005
Xylenes, Total	mg/L	<0.0015	<0.0015	<0.0015
TPH-Diesel	mg/L	<0.10	<0.10	<0.10
Total Organics	mg/L	<0.1	<0.1	<0.1
Maximum Allowable Average Total Organics	mg/L	10	10	10

Notes:

mg/L = milligrams per liter

TPH = total petroleum hydrocarbons

ATTACHMENT 8

Results of Mechanical Integrity Testing

TABLE 1**Q3 2021 MECHANICAL INTEGRITY TESTS**

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Q3 2021 Mechanical Integrity Tests			
Well ID	Temperature Log Date	Pressure Test Date	Pass (P) Fail (F)
WB-01	8/31/2021	--	P
WB-02	8/31/2021	--	P
WB-03	8/31/2021	--	P
WB-04	8/31/2021	--	P

Notes:*Temperature log report sent to U.S. Environmental Protection Agency under separate cover.*

ATTACHMENT 9

Results of Annular Conductivity Device Monitoring



ANNULAR CONDUCTIVITY DATA QA PROCEDURE & DOCUMENTATION FORM (V.1)

GENERAL

HGI Project Name: 2018-030 – FCP Bulk & Annular Conductivity Monitoring	Project Site: Florence Copper Project	Weather Conditions: 90F, P. (Cloudy)
Date 7/01/2021	Field Operator Name: C. BALOYEA	Start and End Time: 0822-0914

EQUIPMENT

AGI MiniSting (MS) Serial #: S0608049	6Ω Resistor Standard Result: 6.294	DIAGNOSTICS		MEASUREMENT SETTINGS	
		(See back of sheet for detailed instructions and procedures)			
HGI Cray Interface Panel SN# CR-ES-002	Pass Criteria: $6.25\Omega \pm 0.30$	Circle One: Pass or Fail		<ul style="list-style-type: none"> • No. Cycles: 4 • Max Error: Off • Max Current: 40mA • Measure Time: 3.6 • Measure mode: RESISTANCE 	

DATA COLLECTION:

WELL ID	Time (24h)	Current (1 mA)	1			2			3			Data Acceptance Pass = P, Fail = F
			Reading	Resistance ($\Delta Y = \Omega$)	Error ($\sigma = \%$)	Reading	Resistance ($\Delta Y = \Omega$)	Error ($\sigma = \%$)	Reading	Resistance ($\Delta Y = \Omega$)	Error ($\sigma = \%$)	
1 WB-04	0830	20	232	60.71	1.7	233	60.29	2.7	234	60.16	2.8	P
2 WB-03	0835	20	235	77.47	0.6	236	75.86	1.3	237	75.32	1.5	P
3 WB-02	0838	20	238	80.93	2.4	239	81.64	2.4	240	81.59	2.5	P
4 WB-01	0841	20	241	52.54	1.3	242	50.70	0.8	243	49.93	0.9	P
5 B-01	0846	20	244	72.02	0.5	245	71.14	0.8	246	70.79	0.9	P
6 B-07	0850	20	247	61.40	0.5	248	60.57	0.8	249	60.20	0.9	P
7 B-06	0854	20	250	57.74	1.3	251	55.74	1.0	252	55.00	1.2	R
8 B-05	0859	20	253	89.25	0.3	254	88.42	0.5	255	88.11	0.6	P
9 B-04	0904	20	256	53.55	1.7	257	51.70	0.5	258	51.01	0.8	P
10 B-03	0910	20	259	55.28	0.9	260	53.83	0.8	261	53.24	0.9	P
11 B-02	0914	20	262	64.33	2.0	263	64.71	2.2	264	64.57	2.2	P

Well ID's that begin with a "B" correspond to the wells that begin with an "O" in standard reporting. For example, B-01 corresponds to O-01.

DATA QUALITY ACCEPTANCE

Measurement Error Evaluation
Pass Criteria: 66% (2/3) of measurement error values less than 5%

(briefly describe site activities at time of data acquisition, status of electrode arrays, or other parameters that may influence readings)

FIELD OBSERVATIONS

I signifying, I certify that data collection instrumentation pass all requirements and the data correction process followed are described setup and programming instructions listed on standard procedure.

Christy Blyea 7/1/2021
Field Operator Signature/Date

I signifying, I certify that measured data pass all required data quality tests listed within this procedure.

Christy Blyea 7/1/2021
Data Inspector Signature/Date

ATTACHMENT 10

Summary of Plugging and Abandonment

Run Date: 01/15/2021

AZ DEPARTMENT OF WATER RESOURCES

WELL REGISTRY REPORT - WELLS55

Location D 4.0 9.0 33 A A D	Well Reg.No 55 - 547616	AMA PINAL AMA
Registered Name FLORENCE COPPER INC 1575 W HUNT HWY		File Type NEW WELLS (INTENTS OR APPLICATIONS) Application/Issue Date 01/31/1995
FLORENCE AZ 85132		
Owner OWNER Driller No. 7 Driller Name LAYNE CHRISTENSEN COMPANY Driller Phone 480-895-9404 County PINAL Parcel No. 200-38-001B Intended Capacity GPM 0.00		
Well Type ENV - MONITOR OR PIEZOMETER SubBasin ELOY Watershed UPPER GILA RIVER Registered Water Uses MONITORING Registered Well Uses MONITOR Discharge Method CURRENT - VENTURI METER - FLOW Power ELECTRIC MOTOR 1 - 5 HP		
Well Depth 0.00 Pump Cap. 32.00 Draw Down 11.00	Case Diam 0.00 Case Depth 0.00 Water Level 0.00 Acres Irrig 0.00	Tested Cap 12.00 CRT X Log Finish NO CASING CODE LISTED

Contamination Site: NO - NOT IN ANY REMEDIAL ACTION SITE

Tribe: Not in a tribal zone

Comments

Current Action

1/15/2021 555 DRILLER & OWNER PACKETS MAILED
Action Comment: kc

Action History

1/15/2021 550 DRILLING AUTHORITY ISSUED
Action Comment: kc

1/14/2021 855 CHANGE OF WELL LEGAL DESCRIPTION
Action Comment: OLD LEGAL DESC: D(4.0-9.0) 33 BBC

1/14/2021 860 CHANGE OF WELL OWNERSHIP
Action Comment: kc

1/14/2021 205 NOI SENDBACK RECEIVED
Action Comment: kc

1/11/2021 200 NOI SENDBACK TO APPLICANT
Action Comment: kc

12/30/2020 175 NOI RECEIVED TO ABANDON A WELL
Action Comment: kc

5/26/2010 860 CHANGE OF WELL OWNERSHIP
Action Comment: bew

5/20/2002 855 CHANGE OF WELL LEGAL DESCRIPTION
Action Comment: SW

5/20/2002 855 CHANGE OF WELL LEGAL DESCRIPTION
Action Comment: OLD LEGAL DESC: D(4.0-9.0) 34 BBC

1/28/2002 860 CHANGE OF WELL OWNERSHIP
Action Comment: SW

ARIZONA DEPARTMENT OF WATER RESOURCES
1110 W. Washington St. Suite 310
Phoenix, Arizona 85007

ABANDON

**ANY DEVIATION IN WELL LOCATION FROM THE PLOT PLAN APPROVED FROM THE COUNTY OR
LOCAL HEALTH AUTHORITY MUST BE RE-SUBMITTED FOR APPROVAL**

THIS AUTHORIZATION SHALL BE IN POSSESSION OF THE DRILLER DURING ALL DRILLING OPERATIONS

WELL REGISTRATION NO: **55-547616**

AUTHORIZED DRILLER: **LAYNE CHRISTENSEN COMPANY**

LICENSE NO: **7**

NOTICE OF INTENTION TO ABANDON ENV - MONITOR OR PIEZOMETER WELL(S) HAS BEEN FILED WITH THE DEPARTMENT BY:

WELL OWNER: **FLORENCE COPPER INC 1575 W HUNT HWY FLORENCE, AZ, 85132**

THE WELL(S) IS/ARE TO BE LOCATED IN THE:

SE 1/4 of the NE 1/4 of the NE 1/4 Section 33 Township 4.0 SOUTH Range 9.0 EAST

NO. OF WELLS IN THIS PROJECT: **1**

ASSESSOR'S PARCEL NO: **200-38-001B**

THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON THE DAY OF

Suzanne M. Miller

GROUNDWATER PERMITTING AND WELLS

**THE DRILLER MUST FILE A WELL ABANDONMENT COMPLETION REPORT WITHIN 30 DAYS OF
ABANDONMENT.**



ARIZONA DEPARTMENT of WATER RESOURCES

1110 W. Washington St. Suite 310
Phoenix, AZ 85007
602-771-8500
azwater.gov

January 15, 2021

FLORENCE COPPER INC
1575 W HUNT HWY
FLORENCE, AZ 85132

Registration No. 55- 547616
File Number: D(4-9) 33 AAD



DOUGLAS A. DUCEY
Governor

THOMAS BUSCHATZKE
Director

Dear Well Owner:

Enclosed is a copy of the Notice of Intent to Abandon a Well (NOI) which you or your driller recently filed with the Department of Water Resources. This letter is to inform you that the Department has approved the NOI and has mailed an abandonment authorization card to your designated well drilling contractor. The driller may not begin abandonment until he/she has received the authorization, and must keep it in their possession at the well site during the abandonment.

The well abandonment authorization card and a blank Well Abandonment Completion Report form (form 55-58) have been sent to your driller. Arizona statute [A.R.S. § 45-594] requires the driller to furnish the Department with a complete and accurate Well Abandonment Completion Report within thirty (30) days after completion of abandonment. Arizona statute also requires a well owner to submit a Well Owner's Notification of Abandonment form (form 55-36) within thirty (30) days after the well has been properly abandoned. A copy of the form is enclosed for your convenience. An electronic copy (compact disc or electronic file) of all video logs, if performed, must be included with the well owner's notification or Well Abandonment Completion Report. You should insist, and ensure, all of this is done.

If you change drillers, you must supply the Department with the new driller's identity on a Request to Change Well Drilling Contractor form (form 55-71B). Forms may be obtained by contacting the Department, or online at <https://new.azwater.gov/permitting-wells/well-forms-and-applications>. Well abandonments shall be performed only by a licensed well drilling contractor or single well licensee.

Sincerely,

A handwritten signature in blue ink that reads "Kevin Cego".

Groundwater Permitting and Wells Section



Arizona Department of Water Resources
Groundwater Permitting and Wells Section
P.O. Box 36020 Phoenix, Arizona 85067-6020
(602) 771-8527 • Fax (602) 771-8689
www.azwater.gov

Received

Notice of Intention to Abandon a Well

FEE
\$150.00

JAN 13 2021

- ❖ Review instructions and the Well Abandonment Handbook prior to completing form with black or blue ink.
- ❖ You must include with your Notice:
 - Well construction diagram showing all existing well construction features listed in Section 5 and the proposed abandonment specifications listed in Section 6.
- ❖ Authority for fee: A.R.S. § 45-113 and A.A.C. R12-15-104

TO BE COMPLETED BY ADWR			FILE NUMBER
ARIZONA DEPARTMENT OF WATER RESOURCES	PINAL	11	D/4-9/33 ARD
RECEIVED DATE	WATERSHED		WELL REGISTRATION NUMBER
12/30/2020	08		55-547616
ISSUED DATE	REMEDIAL ACTION SITE		
1/4/2021	-		

SECTION 1. REGISTRY INFORMATION

To determine the location of well, please refer to the Well Registry Map (<https://gisweb.azwater.gov/WellRegistry/Default.aspx>) and Google Earth (<http://www.earthpoint.us/Townships.aspx>)

Well Type		Location of Well								
CHECK ONE		WELL LOCATION ADDRESS (IF ANY) OR CROSS STREETS 1575 W HUNT HWY, FLORENCE AZ, 85132								
<input type="checkbox"/> Domestic <input checked="" type="checkbox"/> Monitor / Piezometer <input type="checkbox"/> Stock <input type="checkbox"/> Geotechnical <input type="checkbox"/> Irrigation <input type="checkbox"/> Mineral Exploration <input type="checkbox"/> Municipal <input type="checkbox"/> Other (please specify):		TOWNSHIP (N/S)	RANGE (E/W)	SECTION	160 ACRE	40 ACRE	10 ACRE			
		4.0 S	9.0 E	33	NE	NE	SE			
		1/4	1/4	1/4	1/4					
		BOOK	MAP	PARCEL	COUNTY WHERE WELL IS LOCATED					
		200	38	001 B	PINAL					
		LATITUDE	LONGITUDE							
		33 ° 2 ' 37.14 " N	111 ° 25 ' 20.47 " W	Degrees	Minutes	Seconds	Degrees	Minutes	Seconds	
		METHOD OF LATITUDE/LONGITUDE (check one)						<input type="checkbox"/> *GPS: Hand-Held <input checked="" type="checkbox"/> Google Earth <input type="checkbox"/> Conventional Survey <input type="checkbox"/> *GPS: Survey-Grade		
		*IF GPS WAS USED, GEOGRAPHIC COORDINATE DATUM (check one)						<input type="checkbox"/> NAD-83 <input type="checkbox"/> Other (please specify):		

SECTION 2. OWNER INFORMATION

Land Owner		Well Owner (check this box if Land Owner and Well Owner are same) <input checked="" type="checkbox"/>	
FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL FLORENCE COPPER		FULL NAME OF COMPANY, GOVERNMENT AGENCY, OR INDIVIDUAL FLORENCE COPPER	
MAILING ADDRESS 1575 W HUNT HWY		MAILING ADDRESS 1575 W HUNT HWY	
CITY / STATE / ZIP CODE FLORENCE AZ, 85132		CITY / STATE / ZIP CODE FLORENCE AZ, 85132	
CONTACT PERSON NAME AND TITLE IAN REAM (SENIOR HYDROGEOLOGIST)		CONTACT PERSON NAME AND TITLE IAN REAM (SENIOR HYDROGEOLOGIST)	
TELEPHONE NUMBER (520) 840-9604	EMAIL	TELEPHONE NUMBER (520) 840-9604	EMAIL

SECTION 3. ABANDONMENT AUTHORIZATION

Drilling Firm		Consultant (if applicable)	
NAME LAYNE		CONSULTING FIRM HALEY & ALDRICH	
DWR LICENSE NUMBER 7	ROC LICENSE CATEGORY A-4	CONTACT PERSON NAME MARK NICHOLLS	
TELEPHONE NUMBER (480) 824-7100	EMAIL ADDRESS IANREAM@FLORENCECOPPER.COM	TELEPHONE NUMBER (602) 760-2432	EMAIL ADDRESS mnicholls@haleyaldrich.com

SECTION 4.

Questions		Yes	No	If Yes:
1. To your knowledge, is there any information that exists which indicates that the water in this well has been, may be, or is contaminated?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	EXPLAIN (attach additional page if necessary)
2. Is there another well name or identification number associated with this well? (e.g., Lot 3 Well, MW-1, etc.)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	(please state) M5-S
3. Was the well casing video logged?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	INCLUDE CD OR DVD OF VIDEO LOG WITH NOTICE OF INTENT
4. Why is the well being abandoned?		NO FURTHER USE		

Notice of Intent to Abandon a Well

WELL REGISTRATION NUMBER
55 - 547616

SECTION 5. ORIGINAL WELL CONSTRUCTION DESIGN (attach additional page if needed)

Existing Borehole			Existing Casing (to the best of your knowledge)												
DEPTH FROM SURFACE		BOREHOLE DIAMETER (inches)	DEPTH FROM SURFACE		OUTER DIAMETER (inches)	MATERIAL TYPE			PERFORATION TYPE			SLOT SIZE IF ANY (inches)			
FROM (feet)	TO (feet)		FROM (feet)	TO (feet)		STEEL	PVC	ABS	IF OTHER TYPE, DESCRIBE	BLANK OR NONE	WIRE WRAP	SHUTTER SCREEN	MILLS KNIFE	SLOTTED	IF OTHER TYPE, DESCRIBE
0	19	14.5	0	19	10.75	X				X					
19	613	9.62	0	516	6.56	X				X					
			516	576	4.5		X								0.08

Condition of casing: (good, fair, poor, unknown) FAIR

DEPTH FROM SURFACE		ANNUAL MATERIAL TYPE							FILTER PACK					
FROM (feet)	TO (feet)	NONE	CONCRETE	NEAT CEMENT OR CEMENT GROUT	CEMENT-BENTONITE GROUT	BENTONITE GROUT	CHIPS	PELLETS	IF OTHER TYPE OF ANNUAL MATERIAL, DESCRIBE			SAND	GRAVEL	SIZE
0	19			X					TYPE V					
19	502					X								
502	613											X		#6-9

SECTION 6. PROPOSED WELL ABANDONMENT DESIGN (attach additional page if needed)

DATE ABANDONMENT IS TO BEGIN

01/11/2021

Refer to ADWR's [Well Abandonment Handbook](#) for additional information.

Casing Treatment						Sealing or Fill Material										
DEPTH FROM SURFACE		TREATMENT TYPE		IF OTHER TYPE, DESCRIBE OR IF CASING IS TO BE PERFORATED, DESCRIBE SPACING AND SIZE OF PERFORATIONS TO BE ADDED	DEPTH FROM SURFACE	MATERIAL TYPE			HIGH SOLIDS BENTONITE	SAND	MIXING RATIO by (check one) <input checked="" type="checkbox"/> Weight <input type="checkbox"/> Volume	ESTIMATED VOLUME OF MATERIAL (cubic feet)				
FROM (feet)	TO (feet)	SONAR JET	BRUSH OR SCRAPE	MILLS KNIFE	CASING REMOVAL (explain in Remarks)	FROM (feet)	TO (feet)	NEAT CEMENT	CONCRETE	SAND-CEMENT GROUT	CEMENT-BENTONITE GROUT	SAND-BENTONITE GROUT	GROUT	CHIPS	PELLETS	
0	516			X	X	0	613	X							15 PPG	136

Proposed Abandonment Method (See Well Abandonment Handbook)

CHECK ONE

- Standard Method Alternative 4: Other (please specify):
 Alternative 1 Variance Option *
 Alternative 2 Alternative 5:
 Alternative 3 Variance Option 1* * requires a letter requesting a variance
 Variance Option 2*

Emplacement Method of Sealing or Fill Material

CHECK ONE

- Tremie Pumped (Recommended)
 Gravity
 Pressure Grouting
 Other (please specify):

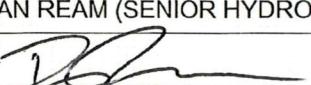
APPLICATION CONTINUES ON PAGE 3

Notice of Intent to Abandon a WellWELL REGISTRATION NUMBER
55 - 547616**SECTION 7. Well Abandonment Diagram**

Please use the space below to provide a well abandonment diagram showing all existing well construction features listed in Section 5 and the proposed abandonment specifications listed in Section 6.

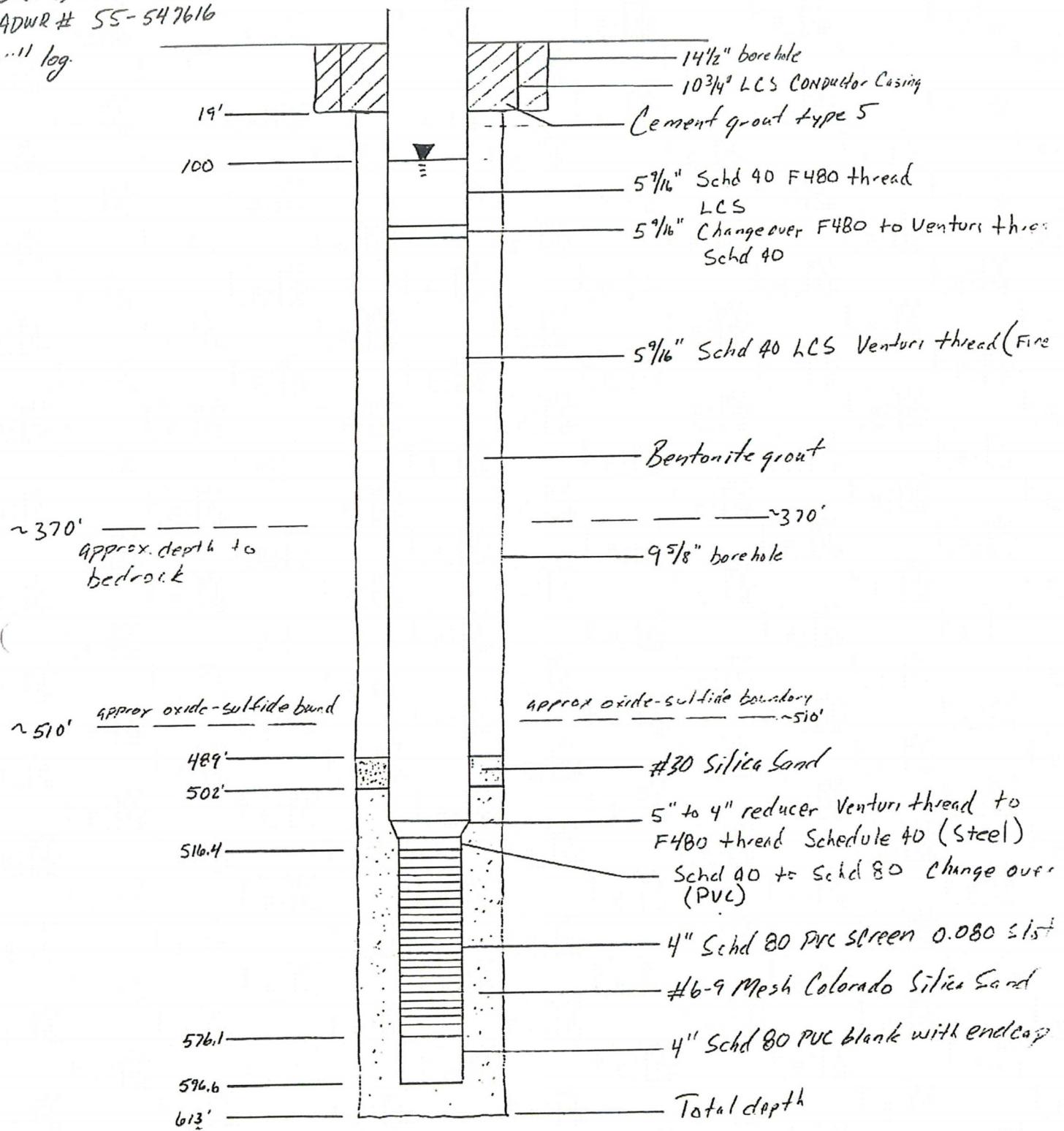
SECTION 8. LAND OWNER AND WELL OWNER SIGNATURE

I state that this notice is filed in compliance with A.R.S. § 45-596 and is complete and correct to the best of my knowledge and belief.

Land Owner	Well Owner (complete if Land Owner/Well Owner are NOT the same)
PRINT NAME AND TITLE IAN REAM (SENIOR HYDROGEOLOGIST)	PRINT NAME AND TITLE
SIGNATURE OF LAND OWNER 	SIGNATURE OF WELL OWNER
DATE 1-13-2021	DATE
<input type="checkbox"/> By checking this box, you agree to allow ADWR to contact you via electronic mail.	<input type="checkbox"/> By checking this box, you agree to allow ADWR to contact you via electronic mail.
EMAIL ADDRESS ianream@florencecooper.com	EMAIL ADDRESS

M5
D(4-9)33 add
ADWR # 55-547616

6'" log



Not to scale



DOUGLAS A. DUCEY
Governor

THOMAS BUSCHATZKE
Director

ARIZONA DEPARTMENT of WATER RESOURCES
1110 West Washington Street, Suite 310
Phoenix, Arizona 85007
602.771.8500
azwater.gov

January 11, 2021

Florence Copper
Attn: Ian Ream
1575 West Hunt Highway
Florence, Arizona 85132

RE: Notice of Intent to Abandon Well Registration Numbers 55-547616

Dear Mr. Ream:

The Arizona Department of Water Resources (Department) has reviewed the above-referenced application to determine if the application meets the substantive requirements of A.R.S. § 45-596. Pursuant to A.R.S. § 41-1074, the Department has determined that additional information is required. The following information must be submitted before the Department can complete the application review:

- **Section 1, Location of Well:** The Pinal County Parcel Number provided on the application is invalid. Please provide the parcel where well registration number 55-547616 is located.
- **Section 2, Landowner:** Well Registration number 55-547616 is in the name of Curis Resources Inc. Please complete and submit form 55-71A to update the well registry into the name of Florence Copper. Since this is an abandonment application the \$30 fee is waived.
- **Section 6, Casing Treatment:** Please clarify the use of 200g det cord in order to perforate the well. Please provide information how the aquifer will be protected from contaminants by using this process.

The Department's administrative review time frame is suspended until all of the requested information is provided. Failure to submit the information requested within 60 days may result in the denial of the application.

Please submit the requested information to my attention. If you have any questions or need further assistance you can contact me at 602-771-8609. I have enclosed a copy of the application for your reference.

Sincerely,

A handwritten signature in blue ink that reads "Kevin Crego".

Kevin Crego
Groundwater Permitting and Wells



Arizona Department of Water Resources
Groundwater Permitting and Wells Section
P.O. Box 36020 Phoenix, Arizona 85067-6020
Telephone (602) 771-8527 • www.azwater.gov

REQUEST TO CHANGE WELL INFORMATION

A PERSON TO WHOM A WELL IS REGISTERED MUST NOTIFY THE ARIZONA DEPARTMENT OF WATER RESOURCES (ADWR) OF A CHANGE IN OWNERSHIP OF THE WELL AND THE NEW OWNER MUST FURNISH INFORMATION AS REQUIRED BY ADWR TO KEEP WELL REGISTRATION RECORDS CURRENT AND ACCURATE. [PURSUANT TO ARIZONA REVISED STATUTES (A.R.S.) § 45-593 (C)]

**PLEASE PRINT CLEARLY

NEED HELP? CALL (602) 771-8527

SECTION 1. REQUIRED FILING FEE AND DOCUMENTATION. (Make checks payable to ADWR)

YOU MUST INCLUDE THE FOLLOWING THREE ITEMS WITH THIS APPLICATION:

Failure to include these items may result in application being returned.

- FILING FEE OF \$30.00** (PURSUANT TO A.R.S. § 45-113 AND ARIZONA ADMINISTRATIVE CODE RULE 12-15-104).
- LEGAL PROOF OF OWNERSHIP** SHOWING LAND OWNERSHIP IN THE NAME OF THE NEW OWNER OF THE LAND WHERE THE WELL IS LOCATED. LEGAL PROOF OF OWNERSHIP INCLUDES, BUT IS NOT LIMITED TO, A RECORDED DEED, OBTAINED FROM THE RECORDER'S OFFICE OF THE COUNTY IN WHICH THE LAND IS LOCATED, COURT ORDER, AGREEMENT OR OTHER LEGAL PROOF THAT DEMONSTRATES OWNERSHIP.
- COPY OF COUNTY ASSESSOR MAP** PLEASE PRINT AN AERIAL PHOTO OR A COUNTY ASSESSOR PARCEL MAP AND PLACE AN (X) WHERE THE WELL IS LOCATED ON YOUR PARCEL

SECTION 2. REGISTRY INFORMATION

WELL REGISTRATION NUMBER: 55- 547616	WELL LOCATION ADDRESS (IF ANY) / OR CROSS STREETS 1575 W HUNT HWY, FLORENCE, AZ 85132
COUNTY ASSESSOR'S PARCEL ID NUMBER: BOOK 200 MAP 38 PARCEL 001 B	COUNTY WHERE WELL IS LOCATED: PINAL

SECTION 3. STATEMENT OF CHANGE OF WELL OWNERSHIP

FEE \$30.00

Previous Well Owner	New Well Owner
FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL CURIS RESOURCES (ARIZONA)	FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL FLORENCE COPPER INC.
MAILING ADDRESS 1575 W HUNT HIGHWAY	MAILING ADDRESS 1575 W HUNT HIGHWAY
CITY / STATE / ZIP CODE FLORENCE, AZ 85132	CITY / STATE / ZIP CODE FLORENCE, AZ 85132
CONTACT PERSON NAME AND TITLE	CONTACT PERSON NAME AND TITLE IAN REAM (SENIOR HYDROGEOLOGIST)
TELEPHONE NUMBER	TELEPHONE NUMBER 520 840-9604
	EMAIL IANREAM@FLORENCECOPPER.COM

SECTION 4. CHANGE OF WELL INFORMATION: (CHANGE OF ADDRESS, LEGAL LOCATION, G.P.S. OR PARCEL NUMBER) PROVIDE A NARRATIVE SUMMARY AND ATTACH ANY DRAWINGS, MAPS OR DIAGRAMS THAT WOULD CLARIFY THE CHANGE. NOTE: APPLIES ONLY TO WELLS THAT HAVE ALREADY BEEN DRILLED. FOR CHANGING INFORMATION ON A PROPOSED WELL, AN AMENDED NOTICE OF INTENT TO DRILL A WELL FORM MUST BE FILED. FOR CHANGE OF DRILLER, A CHANGE OF DRILLER FORM MUST BE FILED.

NO FEE

REQUESTED CHANGES:

SECTION 5. WELL OWNER SIGNATURE (OR AUTHORIZED AGENT)

I HEREBY CERTIFY that I have included the filing fee & required documentation, and the above statements are true to the best of my knowledge & belief:

TYPE OR PRINT NAME: IAN REAM

TITLE: SENIOR HYDROGEOLOGIST

SIGNATURE:

DATE: 1-13-2021



PINAL COUNTY Assessor Parcel Viewer

Assessor Douglas J. Wolf

[Assessor Home Page](#)



Search APN or Address or



(1 of 7)



Parcels:

Assessor Parcel Number
20038001B
First Owner Name
FLORENCE COPPER INC
Second Owner Name

Property Address

Mailing Address
1575 W HUNT HWY
City
FLORENCE
State
AZ
Zip
85132
Sub or Condo Name

Property Description
SF NF NF & S1/2 SW NF NF & S1/2 SF NW
[Zoom to](#) [...](#)





OFFICIAL RECORDS OF
PINAL COUNTY RECORDER
VIRGINIA ROSS

After recording, please return to:

Chris Stachowiak
Osborn Maledon, P.A.
2929 N. Central Ave., Ste. 2100
Phoenix, AZ 85012

DATE/TIME: 08/23/2013 1212
FEE: \$12.00
PAGES: 7
FEE NUMBER: 2013-069357



AFFIDAVIT OF CORPORATE NAME CHANGE

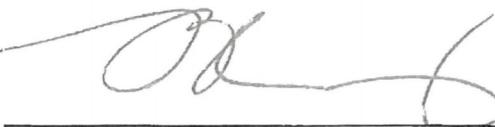
PROVINCE OF BRITISH COLUMBIA)
) ss.
Dominion of CANADA)

Brian Causey, being first duly sworn deposes and says that:

1. He is an Officer of FLORENCE COPPER INC., a Nevada corporation, authorized to transact business in the State of Arizona;
2. Florence Copper Inc. was formerly named Curis Resources (Arizona) Inc.;
3. A change in corporate name from Curis Resources (Arizona) Inc. to Florence Copper Inc. was made by Certificate of Amendment to Articles of Incorporation effective and filed on July 3, 2013, attached hereto, which constitutes a true copy of the official records of the Secretary of State of the State of Nevada;
4. The corporate name change from Curis Resources (Arizona) Inc. to Florence Copper Inc. is further evidenced by an Application of New Authority to Transact Business in Arizona filed July 29, 2013, with the Arizona Corporation Commission, a true copy of which is also attached hereto;
5. This Affidavit has been executed with the intention of placing the same of record in the office of the Recorder of Pinal County, Arizona, for the real property described in the attached Exhibit A, to evidence the foregoing change of corporate name, and
6. This Affidavit has been executed with the intention of placing the same of record to evidence the foregoing change of corporate name to be filed with the Arizona State Land Department.

Dated this 22 of July, 2013.

By: _____


Brian Causey
Secretary, Florence Copper Inc.

This the 22nd day of July, 2013, before me, the undersigned Notary Public, personally appeared Brian Causey, acting in his capacity as an officer and Secretary of Florence Copper Inc., fka Curis Resources (Arizona) Inc., a Nevada corporation, and who is known to me, acknowledged before me on this date that he, in such capacity and with full authority, voluntarily executed the foregoing instrument.


Notary Public
My Commission Does Not Expire

TREVOR R. THOMAS
Barrister & Solicitor
15th Floor – 1040 W. Georgia Street
Vancouver, BC V6E 4H1



STATE OF NEVADA

ROSS MILLER
Secretary of State



SCOTT W. ANDERSON
Deputy Secretary
for Commercial Recordings

OFFICE OF THE
SECRETARY OF STATE

Certified Copy

July 23, 2013

Job Number: C20130723-0177

Reference Number: 00003978130-11

Expedite:

Through Date:

The undersigned filing officer hereby certifies that the attached copies are true and exact copies of all requested statements and related subsequent documentation filed with the Secretary of State's Office, Commercial Recordings Division listed on the attached report.

Document Number(s)	Description	Number of Pages
20130443521-75	Amendment	1 Pages/1 Copies



Respectfully,

A handwritten signature of Ross Miller.

ROSS MILLER
Secretary of State

Certified By: Christine Rakow
Certificate Number: C20130723-0177
You may verify this certificate
online at <http://www.nvsos.gov/>

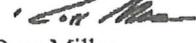
Commercial Recording Division
202 N. Carson Street
Carson City, Nevada 89701-4069
Telephone (775) 684-5708
Fax (775) 684-7138



090101



ROSS MILLER
Secretary of State
204 North Carson Street, Suite 1
Carson City, Nevada 89701-4520
(775) 684-6708
Website: www.nvsos.gov

Filed in the office of 	Document Number 20130443521-75
	Filing Date and Time 07/03/2013 3:28 PM
	Entity Number E0644872007-2

Certificate of Amendment (PURSUANT TO NRS 78.380)

USE BLACK INK ONLY - DO NOT HIGHLIGHT

ABOVE SPACE IS FOR OFFICE USE ONLY

Certificate of Amendment to Articles of Incorporation For Nevada Profit Corporation (Pursuant to NRS 78.380 - Before Issuance of Stock)

1. Name of corporation:

Curis Resources (Arizona) Inc.

2. The articles have been amended as follows: (provide article numbers, if available)

1. Name of Corporation: FLORENCE COPPER INC.

2. Resident Agent name and Street Address:

CSC Services of Nevada Inc.
502 East John Street, Carson City, Nevada, 89706

3. The undersigned declare that they constitute at least two-thirds of the following:(check only one box) incorporators board of directors4. Effective date and time of filing: (optional) Date: _____ Time: _____
(must not be later than 90 days after the certificate is filed)

5. The undersigned affirmatively declare that to the date of this certificate, no stock of the corporation has been issued.

6. Signatures: (If more than two signatures, attach an 8 1/2" x 11" plain sheet with the additional signatures.)


X 
Authorized Signature **BRIAN CAUSEY**
CFO

X
Authorized Signature

IMPORTANT: Failure to include any of the above information and submit with the proper fees may cause this filing to be rejected.

This form must be accompanied by appropriate fees.

Nevada Secretary of State Amend Profit-Before
Revised: 8-31-11

From: Osborn Maledon

08/05/20

AZ Corp. Commission



04352660

**AZ CORPORATION COMMISSION
FILED**

AUG 06 2013

**APPLICATION FOR NEW AUTHORITY
TO TRANSACT BUSINESS IN ARIZONA
BY**

**CURIS RESOURCES (ARIZONA), INC.
(A Nevada Corporation)**

We are a foreign corporation currently authorized to transact business in Arizona and must now file this Application for New Authority pursuant to A.R.S. §10-1504 because we have changed the following in our domicile jurisdiction:

- Our actual corporate name (or the name under which we originally obtained authority in Arizona).

1. The ACC File Number is: F-1566334-0.
2. The exact name of the foreign corporation is Florence Copper Inc.
3. The name of the state, province or country in which the foreign corporation is incorporated is Nevada.
4. The foreign corporation was incorporated on September 14, 2007, and the period of its duration is perpetual.
5. The purpose of the corporation is to engage in any and all lawful business in which corporations may engage in the state, province or country under whose law the foreign corporation is incorporated with no limitations.
6. The character of business the foreign corporation initially intends to conduct in Arizona is mineral exploration and development.
7. The street address of the principal office or known place of business of the foreign corporation in NEVADA is:

CSC Services of Nevada, Inc.
502 East John Street
Carson City, Nevada 89706

8. The street address of the principal office or known place of business of the foreign corporation in ARIZONA is:

Florence Copper Inc.
1575 W. Hunt Highway
Florence, Arizona 85132

9. The name and street address of the statutory agent for the foreign corporation in ARIZONA is:

Rita Maguire
AZ CORPORATION COMMISSION 2999 N. 4th Street #630
FILED Phoenix, Arizona 85018

JUL 29 2013

4175216

FILE NO. F-1566334-0

From:Osborn Naledon

08/05/2013 17:03 #864 P.010/010

10. The names and business addresses of the current directors and officers of the foreign corporation are:

Directors:

Michael McPhie
1500-1040 West Georgia Street
Vancouver BC V6E 4H1

Robert Schafer
1500-1040 West Georgia Street
Vancouver BC V6E 4H1

Russell E. Halfbauer
1500-1040 West Georgia Street
Vancouver BC V6E 4H1

Officers:

Michael McPhie
PRESIDENT
1500-1040 West Georgia Street
Vancouver BC V6E 4H1

Brian Causey
TREASURER
1500-1040 West Georgia Street
Vancouver BC V6E 4H1

Trevor Thomas
SECRETARY
1500-1040 West Georgia Street
Vancouver BC V6E 4H1

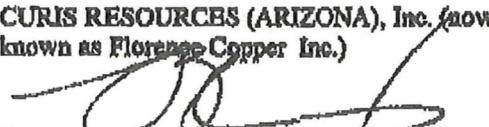
11. The foreign corporation is authorized to issue 100,000 shares of Common Stock with no par value per share.

12. The foreign corporation has not issued any shares of Common Stock.

DATED this 22nd day of July, 2013.

CURIS RESOURCES (ARIZONA), Inc. (now known as Florence Copper Inc.)

By:



Brian Causey, Treasurer

This application is accompanied by:

- (1) A certified copy of the articles of incorporation and all amendments (AZ Corp. Art. XIV, §8) duly authenticated by the official having custody of corporate records in the state, province or country under whose laws we are incorporated (A.R.S. §10-1503.B).
- (2) Arizona name reservation confirmation.
- (3) The filing fee(s) (U.S.) made payable to the Arizona Corporation Commission.

EXHIBIT A

For the following real property situated in Pinal County, Arizona:

**Lot 32, of ANTHEM AT MERRILL RANCH PHASE 1A – UNIT 21,
according to the plat of record in the Office of the County Recorder of Pinal
County, Arizona, recorded in Cabinet F, Slide 152.**

Original recordation date 03/24/2011.

AUSTIN POWDER COMPANY**WESTERN DIVISION TECHNICAL SERVICES**

November 17, 2009

K.C. Construction
Attn.Ken Caver

Re: Well Blasting Explosives
Concerns regarding explosive materials present after the blast

The explosives to be used for this project are:

Shock*Star In-Hole non-electric detonators
Detonating Cord
Cast Boosters

Shock*Star In-Hole non-electric detonators are composed of an aluminum shell-encased detonator assembly which receives its signal to detonate by use of an extruded PVC/Suralyn tube, the inner diameter of which is coated with a compound called HMX. When the tube is initiated, the HMX transmits the signal at a speed of 6,000 feet per second to the detonator. Since this is not an explosion, there is no disruption to the tube, and it therefore remains intact, but inert, in any areas not in intimate contact with the other explosives. Therefore, there would be lengths of inert tubing present after the blast.

Detonating cord is manufactured with an inner core of PETN, with an outer wrapping of plastic and textile fibers. PETN is described as a molecular explosive, with a detonation velocity of about 24,000 feet per second. There is therefore no residue of the explosive or wrapping after the detonation.

Cast Boosters are manufactured with mixtures of PETN, RDX, and TNT. Again, being molecular explosives, the detonation velocity is about 24,000 feet per second, and no residue traces are left after the detonation.

Respectfully,
Austin Powder Company

A handwritten signature in black ink, appearing to read "Steve Harris".

Steve Harris
President - Western Division



Arizona Department of Water Resources
 Water Management Support Section
 P.O. Box 33589 Phoenix, Arizona 85067-3589
 (602) 771-8500 • (800) 352-8488
www.azwater.gov

Request to Change Well Information

- ❖ Review instructions prior to completing form in black or blue ink.
- ❖ You must include with your Notice:
 - check or money order for any required fee(s)
- ❖ Authority for fee: A.A.C. R12-15-151(B)(4)(a), A.R.S. § 45-113(B)

**** PLEASE PRINT CLEARLY ****

FILE NUMBER
WELL REGISTRATION NUMBER 55 - 547616

Well Owner		Location of Well											
FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL Curis Resources (Arizona) Ltd.		WELL LOCATION ADDRESS (IF ANY)											
MAILING ADDRESS 1575 West Hunt Highway		TOWNSHIP (N/S) 4S	RANGE (E/W) 9E	SECTION 33	160 ACRE NW 1/4	40 ACRE NW 1/4	10 ACRE SW 1/4						
CITY / STATE / ZIP CODE Florence, AZ 85132		LATITUDE Degrees	Minutes	"N Seconds	LONGITUDE Degrees	Minutes	"W Seconds						
CONTACT PERSON NAME AND TITLE		METHOD OF LATITUDE/LONGITUDE (CHECK ONE) <table border="0" style="margin-left: auto; margin-right: auto;"> <tr> <td><input type="checkbox"/> USGS Quad Map</td> <td><input type="checkbox"/> Conventional Survey</td> <td><input type="checkbox"/> *GPS: Hand-Held</td> </tr> <tr> <td><input type="checkbox"/> NAD-83</td> <td><input type="checkbox"/> Other (please specify): _____</td> <td><input type="checkbox"/> *GPS: Survey-Grade</td> </tr> </table> <small>*IF GPS WAS USED, GEOGRAPHIC COORDINATE DATUM (CHECK ONE)</small>						<input type="checkbox"/> USGS Quad Map	<input type="checkbox"/> Conventional Survey	<input type="checkbox"/> *GPS: Hand-Held	<input type="checkbox"/> NAD-83	<input type="checkbox"/> Other (please specify): _____	<input type="checkbox"/> *GPS: Survey-Grade
<input type="checkbox"/> USGS Quad Map	<input type="checkbox"/> Conventional Survey	<input type="checkbox"/> *GPS: Hand-Held											
<input type="checkbox"/> NAD-83	<input type="checkbox"/> Other (please specify): _____	<input type="checkbox"/> *GPS: Survey-Grade											
TELEPHONE NUMBER	FAX	COUNTY ASSESSOR'S PARCEL ID NUMBER BOOK MAP PARCEL											
		COUNTY WHERE WELL IS LOCATED											

Type of Request (CHECK ONE)			
<input type="checkbox"/> Change of Well Drilling Contractor (Fill out Section 2)		<input checked="" type="checkbox"/> Change of Well Ownership (Fill out Section 3)	<input type="checkbox"/> Change of Well Information (location, use, etc.) (Fill out Section 4)
\$10 FEE			

- ❖ If drilling or abandoning a well, the Department must receive this request and issue authorization to the new drilling firm prior to the commencement of well drilling or abandonment.

Current Well Drilling Contractor		New Well Drilling Contractor	
FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL		FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL	
DWR LICENSE NUMBER		DWR LICENSE NUMBER	ROC LICENSE CATEGORY
TELEPHONE NUMBER	FAX	TELEPHONE NUMBER	FAX
\$10 FEE			

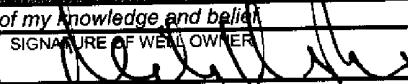
- ❖ If this change pertains to more than one well and the names are the same, only one \$10 fee is required.

Previous Well Owner		New Well Owner	
FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL Florence Copper Inc.		FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL Curis Resources (Arizona) Ltd.	
MAILING ADDRESS 975 Johnson Ferry Road Suite 450		MAILING ADDRESS 1575 West Hunt Highway	
CITY / STATE / ZIP CODE Atlanta, GA 30342		CITY / STATE / ZIP CODE Florence, AZ 85132	
CONTACT PERSON NAME AND TITLE		CONTACT PERSON NAME AND TITLE	
TELEPHONE NUMBER (404) 495-9577	FAX	TELEPHONE NUMBER	FAX
NO FEE			

NOTE: Applies only to wells that have already been drilled. For proposed wells, an amended Notice of Intent to Drill a Well must be filed.

EXPLAIN	Common name: M5-S

By checking this box, I hereby provide ADWR permission to enter the property for the purpose of taking water level measurements at this well. (See instructions.)	

I HEREBY CERTIFY that the above statements are true to the best of my knowledge and belief.	
TYPE OR PRINT NAME AND TITLE Michael McPhie, Director	SIGNATURE OF WELL OWNER 
DATE 5/17/10	

Printed: 5/20/2010 10:38:36 AM

Arizona Department of Water Resources

3550 N Central Ave.
Phoenix AZ 85012

Customer:

UI RESOURCES INC.
14605 E. HUNT HWY.
FLORENCE, AZ 85132

Receipt #: 10-12513
Office: BOOKSTORE
Receipt Date: 5/20/2010
Sale Type: IN PERSC
Cashier: WRACL

Item No.	Index	AOBJ	Description	Ref ID	Qty	Unit Price	Ext Price
100	15238	4439-22	CHANGE OF WELL INFORMATION FORM AMA 55-71A		1	10.00	10.00
RECEIPT TOTAL:							10.00

Payment type: CHECK

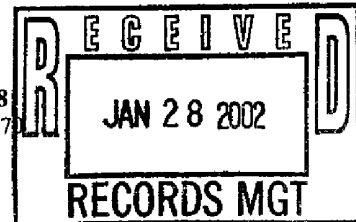
Amount Paid: \$10.00

Check # US20011

Payment Received Date: 5/18/2010

Notes: 1 \$10 CHECK RECEIVED FOR 106 - CHANGE OF WELL INFORMATION FORMS. PREVIOUS OWNER -
FLORENCE COPPER INC., TO CURRENT OWNER - CURIS RESOURCES(ARIZONA) LTD

ARIZONA DEPARTMENT OF WATER RESOURCES
GROUNDWATER MANAGEMENT SUPPORT SECTION
MAIL TO: P.O. BOX 458 - PHOENIX, ARIZONA 85001-0458
FOR INFORMATION: CALL MONICA ORTIZ AT (602) 417-247



FORM TO CHANGE WELL INFORMATION
OWNERSHIP * DRILLER

Please complete the appropriate section of this request form and return to P.O. Box 458, Phoenix, Arizona 85001-0458 or hand deliver to the address above with applicable fee. NOTE: A.R.S. §45-593.C requires that the Department be notified of change of well ownership and that the new owner is required to keep the Department's Well Registration records current and accurate. Well data and ownership changes must be submitted within thirty days after changes take place.

**SAVE THIS FORM TO REPORT FUTURE CHANGES IN OWNERSHIP, CHANGES IN ADDRESS, OR
CHANGE IN WELL DATA SUCH AS PUMP CAPACITY, CORRECTION OF LEGAL DESCRIPTION,
CHANGE OF WELL DRILLER AND AMENDING INFORMATION PREVIOUSLY FILED.**

1. CHANGE OF WELL INFORMATION: (NO FEE REQUIRED)

NOTE: If the location of the proposed well changes after drilling authority has been issued, attach a \$10.00 reissue fee for each well.

WELL REGISTRATION NO. 55- _____ FILE NO: _____

If know, I/We request the following well information be changed: _____

Date _____ Signature of Current Well Owner _____

2. STATEMENT OF WELL OWNERSHIP: (\$10.00 FEE REQUIRED)

NOTE: If this change consists of more than one well and the names are common; attach a \$10.00 fee. Otherwise, each well requires a separate fee of \$10.00.

I, BHP Copper Inc., state that I am the Previous/New Owner of the well described below:

SW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 33 Township 4 South Range 9 East
10 Acre 40 Acre 160 Acre

Assessor's tax parcel number of the parcel on which the well is located: Book _____ Map _____ Parcel _____

Well Registration No. 55- 547616 File No. _____ (if known)

BHP Copper Inc. Florence Copper Inc.

PRINT Previous Owner's Name PRINT New Owner's Name

7400 N. Oracle Road, Suite 131 975 Johnson Ferry Road, Suite 450

Mailing Address Mailing Address

Tucson AZ 85704 Atlanta GA 30342
City State Zip City State Zip

520-575-5675 404-495-9577

Telephone Number Telephone Number

Attn: Merrill Mining, L.L.C.

Signature of Previous/New Well Owner: By: MTL Date 12/01
Its: 1-2-01

**ARIZONA DEPARTMENT OF WATER RESOURCES
GROUNDWATER MANAGEMENT SUPPORT SECTION
MAIL TO: P.O. BOX 458 - PHOENIX, ARIZONA 85001-0458
FOR INFORMATION: CALL MONICA ORTIZ AT (602) 417-2470**

3. **REQUEST TO CHANGE WELL DRILLER** **\$10.00 FEE REQUIRED FOR EACH WELL**

This request must be received by this Department and the Drill Card issued to the new drilling firm prior to the drilling or completion of the well listed below.

Well Registration No. 55- _____ FILE NO. _____

Original Well Driller

New Well Driller

Mailing Address

Mailing Address

City State Zip

City State Zip

Telephone Number

Telephone Number

ADWR License Number

ADWR License Number ROC License Category

Typed or Printed Name of Well Owner

Signature of Well Owner

Date

The fee charge for well ownership and reissue of drill card is authorized by R12-15-151, effective June 30, 1994.

MONITOR/PIEZOMETER WELL

FILING FEE \$10.00

M3-ge

ARIZONA DEPARTMENT OF WATER RESOURCES

OPERATIONS DIVISION

500 NORTH THIRD STREET

PHOENIX, ARIZONA 85004 (602) 417-2470

MONITOR/PIEZOMETER WELL

DEPARTMENT OF WATER RESOURCES
FILING FEE \$10.

NOTICE OF INTENTION TO DRILL MONITOR/PIEZOMETER WELL

JAN 24 1995

Section § 45-596, Arizona Revised Statutes provide: Prior to drilling a monitor or piezometer well, a Notice of Intention to Drill shall be filed with the Department.

1. WELL LOCATION:

4	NS	9	EW	33 1/4
Township		Range		Section

SW 1/4	NW 1/4	NW 1/4	10 ACRE	40 ACRE	160 ACRE
--------	--------	--------	---------	---------	----------

2. Position location of the well on the land:

Latitude 33 0 2 . 35 "Longitude 111 0 25 . 12 "3. County: Pinal

4. Owner of the land of wellsite:

Magma Copper CompanyName 7400 N. Oracle Rd., Ste. 200

Address

Tucson AZ 85704
City State Zip

5. Lessee of the land of wellsite:

Name _____

Address _____

City State Zip

6. Owner of well:

Magma Copper CompanyName 7400 N. Oracle Rd., Ste. 162

Address

Tucson AZ 85704
City State Zip16. Proposed method of abandonment of well after project is completed: According to Regulation R-12-15-81617. Is this well to monitor existing contamination? NO Potential contamination _____. Please explain: _____

GENERAL INSTRUCTIONS

- Fill out this form in **DUPLICATE** and send **WITH \$10.00 FEE** to 500 NORTH THIRD STREET, PHOENIX, AZ 85004
- For specific instructions, limitations and conditions, see the reverse side of this form.
- Must be signed by land owner or lessee.
- Section §45-596(D), provides that the Director shall determine that all information required on form has been submitted. If not, the person filing will be notified and the drilling, deepening, or modification of the well may **not** proceed.

I state that Notice is filed in compliance with Section § 45-596 and is complete and correct to the best of my knowledge and belief and that I understand the conditions set forth on the reverse side of this form.

Dan S. Ramey
Typed or Printed Name

 Signature Land Owner Lessee of wellsite
1/16/95
Date

18. If construction plans have been coordinated with Arizona Department of Environmental Quality, who is the agency contact? _____
If construction plans have been coordinated with Arizona Department of Water Resources, who is the agency contact? _____

19. WELL CONSTRUCTION PLAN
- a) Drilling method (mud rotary, hollow-stem auger, etc.) Mud Rotary
- b) Borehole diameters: 13 3/4 inches from 0 feet to 20 feet.
9 3/4 inches from 20 feet to 520 feet.
- c) Casing materials (PVC, steel, hollow-stem auger, etc.)
material Steel diameter 9 5/8 inches from 0 feet to 20 feet
material Schd 80 PVC diameter 4 inches from 0 feet to 470 feet
- d) Method of sealing at reductions _____
- e) Annular seal materials (cement, grout, etc.); method of placement (tremied, circulated)
material Cement Grout method Tremie from 0 feet to 20 feet
material Bentonite Grout method Tremie from 20 feet to 460 feet
- f) Filter packs (state material):
material Colorado Silica Sand from 460 feet to 520 feet
material #6-9 Mesh from _____ feet to _____ feet
- g) Perforations or screen specifications:
type .080 inch slot PVC Schd 80 from 470 feet to 510 feet
type _____ from _____ feet to _____ feet
- h) Method of well development (bail, air lift, surge) Air Lift and Jetting
- i) Will surface or conductor casing extend above grade: Yes No X

20. Include detailed construction diagram showing expected water depth in feet below land surface, and details of vault, if specified.

CONDITIONS

- I. Construction and abandonment standards for all wells shall be in accordance with A.A.C. R12-15-811 and R12-15-816.
- II. Drilling of the well shall be completed within one (1) year after the date of Notice.
- III. A Well Driller Report, is required within 30 days of completion of drilling. A Completion Report, is required to be filed with the Department within 30 days after installation of pump equipment for monitor wells.
- IV. Pump equipment may not be installed on a well drilled for piezometer purposes. If a monitor well is pumped, pumping is limited to the maximum amount required for monitor purposes, but in no case may exceed 35 gallons per minute and an annual volume of 10 acre feet total.
- V. A.A.C. Rule R12-15-811.H.2, requires that: "A monitor well shall be identified as such on the vault cover or at the top of the steel casing. Identification information will include well registration number."
- VI. Special construction standards required pursuant to A.A.C. Rule R12-15-821: _____

**ARIZONA DEPARTMENT OF WATER RESOURCES
GROUNDWATER MANAGEMENT SUPPORT SECTION
500 North Third Street, Phoenix, Arizona 85004-3903
Phone (602) 417-2470 Fax (602) 417-2422**

**REQUEST FORM TO CHANGE WELL INFORMATION
OWNERSHIP * DRILLER * VARIANCE**

Please complete the appropriate section of this request form and return to the above address with applicable fee.

NOTE: A.R.S. § 45-593.C requires that the Department be notified of change of well ownership and that the new owner is required to keep the Department's Well Registration records current and accurate. Well data and ownership changes must be submitted within thirty days after changes take place.

SAVE THIS FORM TO REPORT FUTURE CHANGES IN OWNERSHIP, CHANGES IN ADDRESS, OR CHANGE IN WELL DATA SUCH AS PUMP CAPACITY, CORRECTION OF LEGAL DESCRIPTION, CHANGE OF WELL DRILLER AND AMENDING INFORMATION PREVIOUSLY FILED.

1. CHANGE OF WELL INFORMATION: (NO FEE REQUIRED)

NOTE: If the location of the proposed well changes after drilling authority has been issued, attach a \$10.00 reissue fee for each well.

WELL REGISTRATION NO. 55- 547616 FILE NO: D(4-9)34BBC

If known, I/We request the following well information be changed: _____

NAME CHANGE ONLY

Date _____ Signature of Current Well Owner _____

2. STATEMENT OF CHANGE OF WELL OWNERSHIP: (\$10.00 FEE REQUIRED)

NOTE: If this change consists of more than one well and the names are common: attach a \$10.00 fee. Otherwise, each well requires a separate fee of \$10.00.

I, _____, state that I am the Previous/New Owner of the well described below:

1/4 1/4 1/4 of Section _____ Township _____ Range _____
10 Acre 40 Acre 160 Acre

Well Registration No. 55- See attached File No.: _____ (if known)

Magma Copper Company BHP Copper Inc.
PRINT Previous Owner's Name PRINT New Owner's Name

7400 North Oracle Road, Suite 200 7400 North Oracle Road, Suite 200
Mailing Address Mailing Address

Tucson Arizona 85704 Tucson Arizona 85704
City State Zip City State Zip

520-575-5600 520-575-5600
Telephone Number Telephone Number

Signature of Previous/New Well Owner By: [Signature] Date 4-23-94
Title: Land Manager

**ARIZONA DEPARTMENT OF WATER RESOURCES
GROUNDWATER MANAGEMENT SUPPORT SECTION**
500 North Third Street, Phoenix, Arizona 85004-3903
Phone (602) 417-2470 Fax (602) 417-2422

3. REQUEST TO CHANGE WELL DRILLER \$10.00 FEE REQUIRED FOR EACH WELL

This request must be received by this Department and the Drill Card issued to the new drilling firm prior to the drilling or completion of any well.

Well Registration No. 55- _____ File No: _____

Original Well Driller

New Well Driller

Mailing Address

Mailing Address

Telephone Number

Telephone Number

ADWR License Number

ADWR License Number

R.O.C. License Category

R.O.C. License Category

Typed or Printed Name of Well Owner

Signature of Well Owner

Date

The fee charge for well ownership and reissue of drill card is authorized by R12-15-151, effective June 30, 1994.

4. REISSUE OF DRILLING AUTHORITY FOR VARIANCE REQUEST: (\$10.00 EACH WELL)

NOTE: If extraordinary or unusual conditions exist, after the initial drilling authority has been issued, the well owner or well driller may request a variance from the provisions of R12-15-811.

WELL REGISTRATION NO. 55- _____ FILE NO: _____

I/WE REQUEST THE FOLLOWING WELL DRILLING AUTHORITY BE REISSUED PER THE ATTACHED VARIANCE REQUEST:

Signature of Well Owner/Well Driller _____ Date _____

NAME: MAGMA COPPER CO

GRID: K 09

PAGE 5,082

REPORT NO: WL9020

ARIZONA DEPARTMENT OF WATER RESOURCES WELL REPORT
OPERATIONS DIVISION
**** WELLS SEQUENCED BY ALPHABETICAL ORDER ****

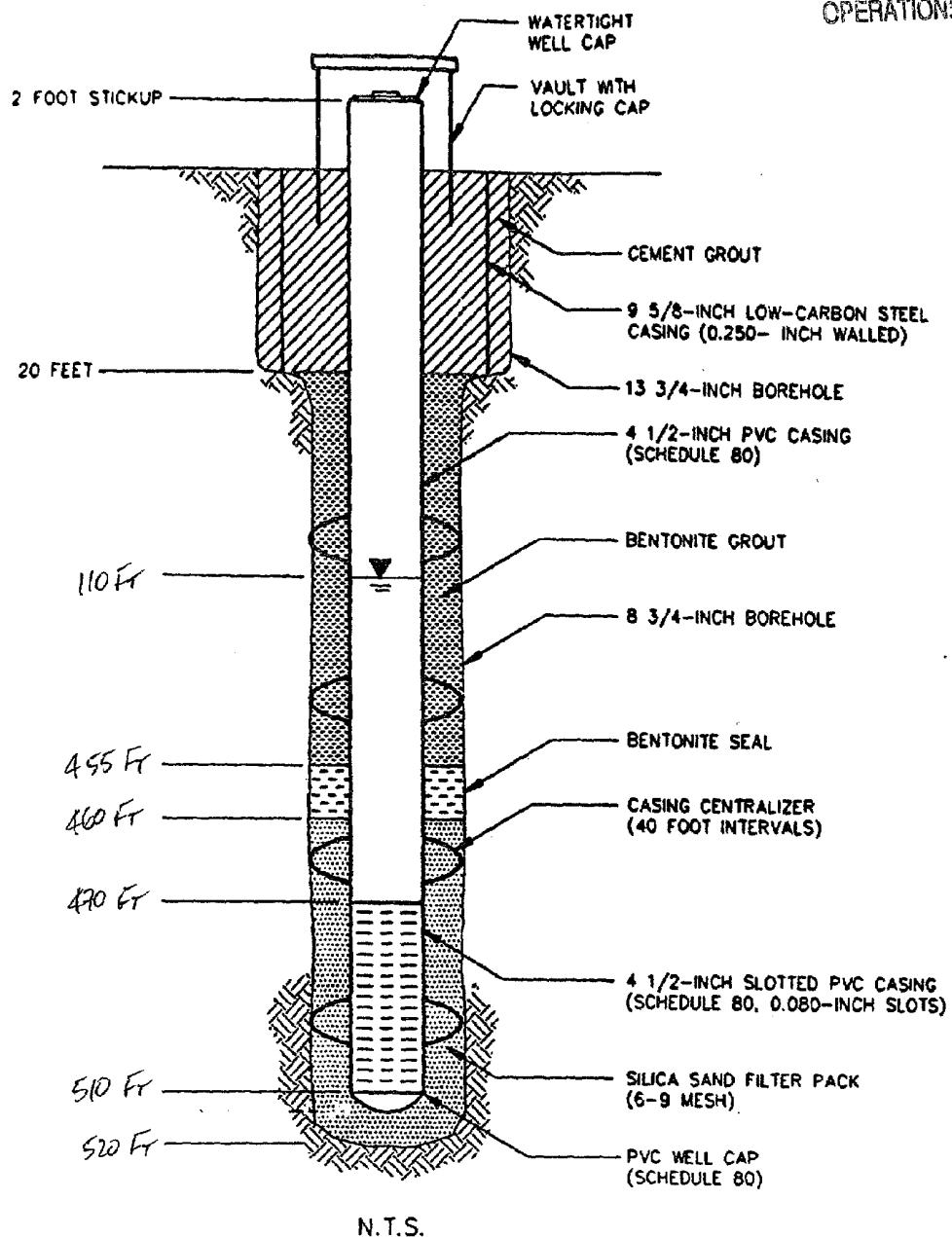
REPORT DATE: 1/31/96

FULL-NAME	Q	T	R	S	Q	T	R	REG NO	WELL DEPTH	DEPTH	CD	AI	WATER LEVEL	PUMP (GPM)	WELL DRILL DATE	DRL LIC NO.	WTR USE	WS	L	C	O	
	U	O	N	E	G	C	1											2	3	EM	SA	EM
MAGMA COPPER CO 7400 N ORACLE RD 162 TUCSON AZ	D	4.0	9.0	33	B	B	C	55-547814	0270	0257	05	0090	00014	5/25/1995	314	M	U8	X	X			
MAGMA COPPER CO 7400 N ORACLE RD 162 TUCSON AZ	D	4.0	9.0	33	B	B	C	55-547615	0510	0485	05	0108	00014	5/21/1995	314	M	U8	X	X			
MAGMA COPPER CO 7400 N ORACLE RD 162 TUCSON AZ	D	4.0	9.0	34	B	B	C	55-547616					00032		314	M	U8	I	X			
MAGMA COPPER CO 7400 N ORACLE RD 162 TUCSON AZ	D	4.0	9.0	33	B	A	C	55-547617	0470	0365	05	0136	00014	6/16/1995	314	M	U8	X	X			
MAGMA COPPER CO 7400 N ORACLE RD 162 TUCSON AZ	D	4.0	9.0	28	B	C	C	55-547815	0590	0583	05	0144	00014	3/30/1995	028	M	U8	X	X			
MAGMA COPPER CO 7400 N ORACLE #200 TUCSON AZ	A	1.0	15.0	14	C	C	A	55-546985							360	M	07	I	N			
MAGMA COPPER CO 7400 N ORACLE RD 162 TUCSON AZ	D	4.0	9.0	28	D	C	B	55-547816	0290	0268	05	0117	00014	5/10/1995	314	M	U8	X	X			
MAGMA COPPER CO 7400 N ORACLE RD 162 TUCSON AZ	D	4.0	9.0	28	D	C	B	55-547817	0370	0349	05	0115	00014	5/09/1995	314	M	U8	X	X			
MAGMA COPPER CO 7400 N ORACLE RD 162 TUCSON AZ	D	4.0	9.0	28	D	C	B	55-547818	0510	0500	05	0126	00014	5/06/1995	314	M	U8	X	X			
MAGMA COPPER CO 7400 N ORACLE RD 162 TUCSON AZ	D	4.0	9.0	28	D	C	B	55-547819					00020		028	M	U8	I	X			
MAGMA COPPER CO 7400 N ORACLE #200 TUCSON AZ	A	1.0	15.0	23	B	A	D	55-546986							360	M	07	I	N			

DEPARTMENT OF WR

JAN 24 1995

OPERATIONS DIV.



NOTES:

1. PVC = POLYVINYL CHLORIDE
2. CASING DIMENSIONS ARE OUTSIDE DIAMETER

WELL DESIGN

BROWN AND CALDWELL

ARIZONA DEPARTMENT OF WATER RESOURCES

500 N 3RD ST., PHOENIX, AZ. 85004
Telephone (602) 417-2470
Fax (602) 417-2401



January 30, 1995

MAGMA COPPER CO.
7400 N. ORACLE RD. S162
TUCSON, AZ. 85704

FIFE SYMINGTON
Governor

RITA P. PEARSON
Director

RE: Registration No. 55-547611 THRU 55-547617

File No. VARIOUS

Dear Well Owner:

Enclosed for your records is an annotated copy of the Notice of Intention to Drill a well. This is returned to you as evidence of compliance with A.R.S. §45-596. A drilling card has been mailed to your designated driller. Prior to drilling he must have it in his possession.

Since this well is being drilled as a Monitor well, or for Cathodic Protection, Grounding, Geotechnical or Piezometer purposes, our standard driller report form is also being furnished to the driller. He is required to complete it and return it to the Department within 30 days after the completion of the well. A Completion Report form is being furnished for monitor wells where pump installation is authorized. This must be completed within thirty days of installation as required by A.R.S. §45-600.

A Change of Well Information form is enclosed for your future use . If you deem it necessary to change the location of the proposed well, please notify the Department on the enclosed form. A properly amended Drilling Card will then be issued and must be in possession of the driller before drilling begins. During the drilling of a new well, if it is determined that it must be abandoned, then a Well Abandonment Completion Report must be submitted per R12-15-816.F.

Per A.R.S. §45-593, the person to whom a well is registered shall notify this Department of a change of ownership of the well and/or information pertaining to the physical characteristics of the well, in order to keep the well registration file current and accurate.

For additional information, you may contact the Operations Division at (602) 542-1581.

Sincerely,

Ellen Kane
Ellen Kane
Groundwater Permit Specialist

BROWN & CALDWELL
3636 N. CENTRAL AVE. S300
PHOENIX, AZ. 85012

STATE OF ARIZONA
DEPARTMENT OF WATER RESOURCES
OPERATIONS DIVISION
15 SOUTH 15TH AVENUE
PHOENIX, ARIZONA 85007
(602) 542-1581

ENTRY CODE 55

FILE NO. VARIOUS 547611

THRU 547617

ITEM DESCRIPTION	RATE	AMOUNT
FILING FEE FOR NOI TO DRILL WELLS	\$10.00	\$70.00
		
1/30/95/ek CK#7519		\$70.00

CHECK NO. _____ FEE ACCOUNT NO. _____ TOTAL \$ _____

CHIT NO. _____ RECEIVED BY _____ DATE _____

IPS 1821 - Rev. 4/91

ARIZONA DEPARTMENT OF WATER RESOURCES

OPERATIONS DIVISION
500 North Third Street
Phoenix, Arizona 85004-3903
Phone (602) 417-2470

DUPLICATE

THIS AUTHORIZATION SHALL BE IN POSSESSION OF THE DRILLER DURING ALL DRILL OPERATIONS

WELL REGISTRATION NO. 55-547614 THRU 55-547616

AUTHORIZED DRILLER: BOYLES BROS. DRILLING CO. LICENSE NO. 28

NOTICE OF INTENTION TO DRILL A MONITOR WELL HAS BEEN FILED WITH THE DEPARTMENT BY:

Owner of Well(s)

MAGMA COPPER CO. 7400 N. ORACLE RD. S162 TUCSON AZ 85704

The well(s) is/are to be located in:

SW 1/4 NW1/4 NW1/4 Section 34 Township 4.0 SOUTH Range 9.0 EAST
10 acre 40 acre 160 acre

NUMBER OF WELLS IN PROJECT: 3

THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON JAN 23RD, 1996

THE DRILLER SHALL FILE A LOG OF THE WELL WITHIN 30 DAYS OF
COMPLETION OF DRILLING.



CHIEF, OPERATIONS DIVISION

ARIZONA DEPARTMENT OF WATER RESOURCES

Operations Division, 500 North Third Street
Phoenix, Arizona 85004 Telephone (602) 417-2470

3. REQUEST TO CHANGE WELL DRILLER \$10.00 FEE REQUIRED FOR EACH WELL

This request must be received by this Department and the Drill Card issued to the new drilling firm PRIOR to the drilling or completion of any well.

Well Registration No. 55- 547616

File No. D(4-9)346bc³³

BOYLE'S BROTHERS DRILLING
Original Well Driller

STEWART BROTHERS DRILLING CO.
New Well Driller

6527 W. NORTHVIEW AVE.
Mailing Address GLENDALE, AZ 85301

P.O. BOX 2067 MILAN, NM 87021
Mailing Address

28
ADWR License Number

314
ADWR License Number

CLASS A - 04 - 074-386-002
R.O.C. License Number

A-04 LC.# 075379
R.O.C. License Number

JOHN. T. KLINE
Typed or Printed Name of Well Owner


Signature of Well Owner

5/25/95
Date

The fee charge for well ownership and reissue of drill card is authorized by R12-15-151,
effective June 30, 1994.

DWR-55-71-8/94(Rev)

ENTERED JUN 20 1995

m5

ARIZONA DEPARTMENT OF WATER RESOURCES

Operations Division, 500 North Third Street
Phoenix, Arizona 85004 Telephone (602) 417-2470

REQUEST FORM TO CHANGE WELL INFORMATION OWNERSHIP * DRILLER

Please complete the appropriate section of this request form and return to the above address with applicable fee. NOTE: A.R.S. §45-593.C. requires that the Department be notified of change of well ownership and that the new owner is required to keep the Department's Well Registration records current and accurate. Well data and ownership changes must be submitted within thirty (30) days after changes take place.

SAVE THIS FORM TO REPORT FUTURE CHANGES IN OWNERSHIP, CHANGES IN ADDRESS, OR CHANGE IN WELL DATA SUCH AS PUMP CAPACITY, CORRECTION OF LEGAL DESCRIPTION, CHANGE OF WELL DRILLER AND AMENDING INFORMATION PREVIOUSLY FILED.

1. CHANGE OF WELL INFORMATION

NO FEE REQUIRED

NOTE: If the location of the proposed well changes after drilling authority has been issued, attach a \$10.00 reissue fee for each well.

Well Registration No. 55- 547616 File No. DL4-9)34bbc (If known)

I/We request the following well information be changed: Section 34: Change to Section 33,
Change file No. to DL4-9)33bbc

Date 5/25/93 Signature of Current Well Owner Jean Kline

2. STATEMENT OF CHANGE OF WELL OWNERSHIP

\$10.00 FEE REQUIRED

If this change consists of more than one well and the names are common: attach a \$10.00 fee. Otherwise, each well requires a separate \$10.00.

I, _____, state that I am the Previous/New Owner of the well described below:

_____ /4 _____ /4 _____ /4; Section _____ Township _____ Range _____
10 acre 40 acre 160 acre

Well Registration No. 55- _____ File No. _____ (If known)

PRINT Previous Owner's Name

PRINT New Owner's Name

Mailing Address

Mailing Address

City _____ State _____ Zip _____

City _____ State _____ Zip _____

Telephone _____

Telephone _____

Date _____ Signature of Previous/New Well Owner _____

DWR-55-71-8/94(Rev)

ARIZONA DEPARTMENT OF WATER RESOURCES

OPERATIONS DIVISION

REISSUE

500 North Third Street
Phoenix, Arizona 85004-3903
Phone (602) 417-2470

DUPLICATE

THIS AUTHORIZATION SHALL BE IN POSSESSION OF THE DRILLER DURING ALL DRILL OPERATIONS

WELL REGISTRATION NO. 55-547614 THRU 55-547616

AUTHORIZED DRILLER: STEWART BROTHERS DRILLING LICENSE NO. 360

NOTICE OF INTENTION TO DRILL A MONITOR WELL HAS BEEN FILED WITH THE DEPARTMENT BY:

Owner of Well(s)

MAGMA COPPER CO. 7400 N. ORACLE RD. S162 TUCSON AZ 85704

The well(s) is/are to be located in:

SW 1/4 NW1/4 NW1/4 Section 33 Township 4.0 SOUTH Range 9.0 EAST
10 acre 40 acre 160 acre

NUMBER OF WELLS IN PROJECT: 3

THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON JAN 23RD, 1996

THE DRILLER SHALL FILE A LOG OF THE WELL WITHIN 30 DAYS OF
COMPLETION OF DRILLING.




CHIEF, OPERATIONS DIVISION

ARIZONA DEPARTMENT OF WATER RESOURCES

Operations Division, 500 North Third Street
Phoenix, Arizona 85004 Telephone (602) 417-2470

REQUEST FORM TO CHANGE WELL INFORMATION OWNERSHIP * DRILLER

Please complete the appropriate section of this request form and return to the above address with applicable fee. NOTE: A.R.S. §45-593.C. requires that the Department be notified of change of well ownership and that the new owner is required to keep the Department's Well Registration records current and accurate. Well data and ownership changes must be submitted within thirty (30) days after changes take place.

SAVE THIS FORM TO REPORT FUTURE CHANGES IN OWNERSHIP, CHANGES IN ADDRESS, OR CHANGE IN WELL DATA SUCH AS PUMP CAPACITY, CORRECTION OF LEGAL DESCRIPTION, CHANGE OF WELL DRILLER AND AMENDING INFORMATION PREVIOUSLY FILED.

1. CHANGE OF WELL INFORMATION NO FEE REQUIRED

NOTE: If the location of the proposed well changes after drilling authority has been issued, attach a \$10.00 reissue fee for each well.

Well Registration No. 55- 547416 File No. D(4-9)34bbc ³³ (If known)

I/We request the following well information be changed: Section 34: Change to Section 33,
Change file No. to D(4-9)33bbc

Date 5/25/91 Signature of Current Well Owner Jean Kline

2. STATEMENT OF CHANGE OF WELL OWNERSHIP \$10.00 FEE REQUIRED

If this change consists of more than one well and the names are common: attach a \$10.00 fee. Otherwise, each well requires a separate \$10.00.

I, _____, state that I am the Previous/New Owner of the well described below:

_____ 1/4 1/4 1/4; Section _____ Township _____ Range _____
10 acre 40 acre 160 acre

Well Registration No. 55- _____ File No. _____ ENTERED JUN 2 1995 (If known)

PRINT Previous Owner's Name _____

PRINT New Owner's Name _____

Mailing Address _____

Mailing Address _____

City _____ State _____ Zip _____

City _____ State _____ Zip _____

Telephone _____

Telephone _____

Date _____ Signature of Previous/New Well Owner _____
DWR-55-71-8/94(Rev)

ARIZONA DEPARTMENT OF WATER RESOURCES

15 South 15th Avenue
Phoenix, Arizona 85007

Registration No. 55-547616File No. D(4-9)336bc**COMPLETION REPORT**

1. Per A.R.S. § 45-600, the Completion Report is to be filed with the Department within 30 days after installation of pump equipment by the registered well owner.
2. Drawdown of the water level for a non-flowing well should be measured in feet after not less than 4 hours of continuous operation and while still in operation and for a flowing well the shut-in pressure should be measured in feet above the land or in pounds per square inch at the land surface.
3. The static groundwater level should be measured in feet from the land surface immediately prior to the well capacity test.
4. The tested pumping capacity of the well in gallons per minute for a non-flowing well should be determined by measuring the discharge of the pump after continuous operation for at least 4 hours and for a flowing well by measuring the natural flow at the land surface.

LOCATION OF THE WELL:

<u>4</u> NS	<u>9</u> E/W	<u>33</u> Section	<u>SW</u> 1/4	<u>NW</u> 1/4	<u>NW</u> 1/4
Township	Range	Section	10-acre	40-acre	160-acre

EQUIPMENT INSTALLED:

Kind of pump GRUNDFOS SUBMERSIBLE TURBINE
Turbine, centrifugal, etc.

Kind of power ELECTRIC H.P. Rating of Motor 2.0
Electric, natural gas, gasoline, etc.

Pumping Capacity 18-32 GPM Date pump installed: AUGUST 1995
Gallons per minute

WELL TEST:

Test pumping capacity 12 Date Well Tested: 8/15/95
Gallons per minute

Method of Discharge Measurement FLOW METER
Weir, orifice, current meter, etc.

Static Groundwater Level 122.13 ft. Drawdown 11.09 ft.

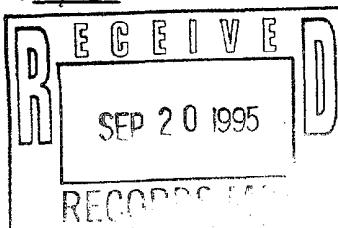
Total Pumping Lift 133.22 ft. Drawdown - lbs.

(Flowing Well)
ENTERED SEP 21 1995

I HEREBY CERTIFY that the above statements are true to the best of my knowledge and belief.

Sept 14, 1995

Date

MAGNA COPPER COMPANY

Print Well Owner's Name

Signature of Well Owner or Agent

14605 East Hunt Highway

Address

Florence AZ 85232

City State Zip



Arizona Department of Water Resources
Groundwater Permitting and Wells Section
P.O. Box 36020 Phoenix, Arizona 85067-6
(602) 771-8527 • Fax (602) 771-8689
www.azwater.gov

Well Abandonment Completion Report

- ❖ Review instructions prior to completing form in black or blue ink.
 - ❖ The drilling firm or single well licensee must file this report within 30 days of completion of abandonment. (A.R.S. § 45-594, A.A.C. R12-15-816)

**** PLEASE PRINT CLEARLY ****

FILE NUMBER
WELL REGISTRATION NUMBER 55-547616

SECTION 1. ABANDONMENT AUTHORIZATION

Drilling Firm

Mail To:	NAME <i>Reliant Well Drilling & Pump</i>	DWR LICENSE NUMBER <i>867</i>
	ADDRESS <i>6341 W. Trails End Rd</i>	TELEPHONE NUMBER <i>5202760913</i>
	CITY / STATE / ZIP <i>Tucson, Az 85745</i>	FAX <i>5202937890</i>

SECTION 2. REGISTRY INFORMATION

Well Owner Information

FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL <i>Florence Copper, Inc.</i>	CONTACT PERSON NAME AND TITLE
MAILING ADDRESS <i>1575 W. Hunt Hwy</i>	TELEPHONE NUMBER
CITY / STATE / ZIP CODE <i>Florence, AZ 85132</i>	FAX

Location of Well

WELL LOCATION ADDRESS (IF ANY)						LATITUDE Degrees	' Minutes	"N Seconds	LONGITUDE Degrees	' Minutes	"W Seconds	
TOWNSHIP (N/S)	RANGE (E/W)	SECTION	160 ACRE	40 ACRE	10 ACRE	LAND SURFACE ELEVATION AT WELL Feet Above Sea Level						
			1/4	1/4	1/4	METHOD OF LATITUDE/LONGITUDE (CHECK ONE) <input type="checkbox"/> *GPS: Hand-Held <input type="checkbox"/> USGS Quad Map <input type="checkbox"/> Conventional Survey <input type="checkbox"/> *GPS: Survey-Grade *IF GPS WAS USED, GEOGRAPHIC COORDINATE DATUM (CHECK ONE) <input type="checkbox"/> NAD-83 <input type="checkbox"/> Other (please specify):						
COUNTY ASSESSOR'S PARCEL ID NUMBER						BOOK 200	MAP 38	PARCEL 001 B				

SECTION 3.

Questions

Questions			IF YES, EXPLAIN (ATTACH ADDITIONAL PAGE IF NECESSARY)
1. To your knowledge, is there any information that exists which indicates that the water in this well has been, may be or is contaminated?		X	
2. Is there another well name or identification number associated with this well? (e.g., MW-1, PZ-4, Lot 29 Well, Smith Well, etc.)		X	IF YES, PLEASE STATE
3. Prior to abandonment, did the well have 20' of surface casing AND 20' of grout in the annular space surrounding the casing?		X	If no, was the top 20' of casing removed prior to setting the cement plug? <input type="checkbox"/> Yes <input type="checkbox"/> No
4. Was the well backfilled above the cement plug?		X	
5. Was the well casing video logged?		X	
6. Why was the well abandoned?			Moved for new construction

Well Abandonment Completion Report

WELL REGISTRATION NUMBER

55 -

SECTION 4. ORIGINAL WELL CONSTRUCTION DESIGN (attach additional page if needed)

Existing Borehole			Existing Casing (to the best of your knowledge)												
DEPTH FROM SURFACE		BOREHOLE DIAMETER (inches)	DEPTH FROM SURFACE		OUTER DIAMETER (inches)	MATERIAL TYPE (T)			PERFORATION TYPE (T)			SLOT SIZE IF ANY (inches)			
FROM (feet)	TO (feet)		FROM (feet)	TO (feet)		STEEL	PVC	ABS	IF OTHER TYPE, DESCRIBE	BLANK OR NONE	WIRE WRAP	SHUTTER SCREEN	MILLS KNIFE	SLOTTED	IF OTHER TYPE, DESCRIBE
0	20'	14 1/2"	0	20	10 3/4"	X				X					
0	613'	9 5/8"	0	516	5"	X				X					
			516'	596'	4"	X					X				.080

Condition of casing: Good Fair Poor

Existing Annular Material (to the best of your knowledge)

DEPTH FROM SURFACE		ANNULAR MATERIAL TYPE (T)						FILTER PACK				
FROM (feet)	TO (feet)	NONE	CONCRETE	NEAT CEMENT OR CEMENT GROUT	CEMENT-BENTONITE GROUT	BENTONITE	GROUT	CHIPS	PELLETS	SAND	GRAVEL	SIZE
0	20'		X									
20'	489'		X									#30
489'	613'											#6-9
IF OTHER TYPE OF ANNULAR MATERIAL, DESCRIBE										#6-9 Mesh Colorado Silica		

SECTION 5. ACTUAL WELL ABANDONMENT DESIGN (attach additional page if needed)

Refer to ADWR's Well Abandonment Handbook for additional information.

PERIODIC WATER

WATER Feet Below Land Surface

DATE ABANDONMENT COMPLETED

Casing Treatment

Sealing or Fill Material

Actual Abandonment Method (See Well Abandonment Handbook)

Emplacement Method of Sealing or Fill Material

Actual A

- Standard Method Alternative 4: Other (please specify):

Alternative 1 Variance Option

Alternative 2 Alternative 5:

Alternative 3 Variance Option 1

Variance Option 2

CHECK ONE

- Gravity
 - Pressure Grouting
 - Tremie Pumped
 - Other (please specify):

REMARKS

I state that this notice is filed in compliance with A.R.S. § 45-594 and A.A.C. R12-15-816 and is complete and correct to the best of my knowledge and belief.

TYPE OR PRINT NAME AND TITLE

SIGNATURE OF QUALIFYING PARTY

DATE

ATTACHMENT 11

Table of Monthly Casing Annulus and Injection Pressures

Q3 2021 DAILY WELLHEAD PRESSURES - INJECTION WELLS

Page 1 of 3

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 1. July 2021 Wellhead Pressures

Date	I-01			I-02			I-03			I-04			Fracture Gradient
	Avg	Min	Max										
7/1/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/2/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/3/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/4/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/5/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/6/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/7/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/8/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/9/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/10/2021	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/11/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/12/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/13/2021	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/14/2021	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/15/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/16/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/17/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/18/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	1.61
7/19/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/20/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/21/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/22/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/23/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/24/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/25/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	112.89
7/26/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/27/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/28/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/29/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/30/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/31/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89

Notes:

All measurements in pounds per square inch (psi)

NM = Not measured or otherwise not available

Calculation of Pressure Allowed at the Wellhead from the Allowed Fracture Gradient

$$P\text{-Wellhead} = P\text{-TOS} - P\text{-Col} = [P\text{-Frac} \times D\text{-TOS}] - [D\text{-TOS} / Conv] \text{ Where:}$$

P-Fracture	= Pressure allowed at the top of the injection well screen (TOS)	=	0.65	psi/foot of depth
D-TOS	= Depth to top of injection well screens	=	520	feet
P-TOS	= Total pressure allowed at top of screen = P-Fracture x D-TOS	=	0.65 psi/foot x 520 feet	338 psi
Conv	= Feet of Water per psi	=	2.31	feet/psi
P-Col	= Pressure from weight of water column at TOS	=	520 feet / 2.31 feet/psi	225.11 psi
P-Wellhead	= Allowable pressure at the top of the wellhead = P-TOS - P-Col	=	338 psi - 255.1 psi	112.89 psi

Q3 2021 DAILY WELLHEAD PRESSURES - INJECTION WELLS

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FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 2. August 2021 Wellhead Pressures

Date	I-01			I-02			I-03			I-04			Fracture Gradient
	Avg	Min	Max										
8/1/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/2/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/3/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/4/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/5/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/6/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/7/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.03	112.89
8/8/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/9/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/10/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/11/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/12/2021	0.00	0.00	0.00	0.00	0.00	0.35	0.00	2.43	0.00	0.00	0.00	0.00	112.89
8/13/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	112.89
8/14/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/15/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/16/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/17/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/18/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/19/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/20/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/21/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/22/2021	0.00	0.00	0.02	0.00	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/23/2021	0.00	0.00	0.08	0.07	0.08	0.08	0.00	0.00	0.00	0.01	0.00	0.03	112.89
8/24/2021	0.00	0.00	0.08	0.07	0.08	0.08	0.00	0.00	0.00	0.03	0.01	0.03	112.89
8/25/2021	0.00	0.00	0.08	0.07	0.08	0.08	0.00	0.00	0.01	0.02	0.01	0.03	112.89
8/26/2021	0.00	0.00	0.07	0.05	0.08	0.08	0.00	0.00	0.00	0.03	0.01	0.03	112.89
8/27/2021	0.00	0.00	0.07	0.07	0.08	0.08	0.00	0.00	0.00	0.02	0.01	0.03	112.89
8/28/2021	0.00	0.00	0.08	0.07	0.08	0.08	0.00	0.00	0.00	0.03	0.01	0.03	112.89
8/29/2021	0.00	0.00	0.08	0.07	0.08	0.08	0.00	0.00	0.00	0.02	0.01	0.03	112.89
8/30/2021	0.00	0.00	0.08	0.07	0.08	0.08	0.00	0.00	0.00	0.02	0.01	0.03	112.89
8/31/2021	0.00	0.00	0.08	0.07	0.08	0.08	0.00	0.00	0.00	0.03	0.01	0.03	112.89

Notes:

All measurements in pounds per square inch (psi)

NM = Not measured or otherwise not available

Calculation of Pressure Allowed at the Wellhead from the Allowed Fracture Gradient

$$P\text{-Wellhead} = P\text{-TOS} - P\text{-Col} = [P\text{-Frac} \times D\text{-TOS}] - [D\text{-TOS} / Conv] \text{ Where:}$$

P-Fracture	= Pressure allowed at the top of the injection well screen (TOS)	=	0.65	psi/foot of depth
D-TOS	= Depth to top of injection well screens	=	520	feet
P-TOS	= Total pressure allowed at top of screen = P-Fracture x D-TOS	=	0.65 psi/foot x 520 feet	338 psi
Conv	= Feet of Water per psi	=	2.31	feet/psi
P-Col	= Pressure from weight of water column at TOS	=	520 feet / 2.31 feet/psi	225.11 psi
P-Wellhead	= Allowable pressure at the top of the wellhead = P-TOS - P-Col	=	338 psi - 255.1 psi	112.89 psi

Q3 2021 DAILY WELLHEAD PRESSURES - INJECTION WELLS

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FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 3. September 2021 Wellhead Pressures

Date	I-01			I-02			I-03			I-04			Fracture Gradient
	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	
9/1/2021	0.00	0.00	0.00	0.08	0.07	0.08	0.00	0.00	0.00	0.03	0.01	0.03	112.89
9/2/2021	0.00	0.00	0.00	0.08	0.07	0.08	0.00	0.00	0.00	0.03	0.01	0.03	112.89
9/3/2021	0.00	0.00	0.00	0.08	0.07	0.08	0.00	0.00	0.00	0.03	0.01	0.03	112.89
9/4/2021	0.00	0.00	0.00	0.08	0.00	0.08	0.00	0.00	0.00	0.03	0.01	0.03	112.89
9/5/2021	0.00	0.00	0.00	0.08	0.07	0.08	0.00	0.00	0.00	0.03	0.01	0.03	112.89
9/6/2021	0.00	0.00	0.00	0.08	0.07	0.08	0.00	0.00	0.00	0.03	0.01	0.03	112.89
9/7/2021	0.00	0.00	0.00	0.08	0.07	0.08	0.00	0.00	0.00	0.03	0.01	0.03	112.89
9/8/2021	0.00	0.00	0.00	0.08	0.07	0.08	0.00	0.00	0.00	0.03	0.01	0.03	112.89
9/9/2021	0.00	0.00	0.00	0.08	0.07	0.08	0.00	0.00	0.00	0.02	0.01	0.03	112.89
9/10/2021	0.00	0.00	0.00	0.08	0.07	0.08	0.00	0.00	0.00	0.02	0.01	0.03	112.89
9/11/2021	0.00	0.00	0.00	0.08	0.07	0.08	0.00	0.00	0.00	0.02	0.01	0.03	112.89
9/12/2021	0.00	0.00	0.00	0.08	0.07	0.08	0.00	0.00	0.00	0.02	0.01	0.03	112.89
9/13/2021	0.00	0.00	0.00	0.08	0.00	0.08	0.00	0.00	0.00	0.02	0.00	0.03	112.89
9/14/2021	0.00	0.00	0.00	0.08	0.07	0.08	0.00	0.00	0.00	0.03	0.01	0.03	112.89
9/15/2021	0.00	0.00	0.00	0.08	0.07	0.08	0.00	0.00	0.00	0.03	0.01	0.03	112.89
9/16/2021	0.00	0.00	0.00	0.08	0.07	0.08	0.00	0.00	0.00	0.02	0.01	0.03	112.89
9/17/2021	0.00	0.00	0.00	0.08	0.07	0.08	0.00	0.00	0.00	0.03	0.01	0.03	112.89
9/18/2021	0.00	0.00	0.00	0.08	0.07	0.08	0.00	0.00	0.00	0.03	0.01	0.03	112.89
9/19/2021	0.00	0.00	0.00	0.08	0.07	0.08	0.00	0.00	0.00	0.02	0.01	0.03	112.89
9/20/2021	0.00	0.00	0.00	0.08	0.07	0.08	0.00	0.00	0.00	0.03	0.01	0.03	112.89
9/21/2021	0.00	0.00	0.00	0.08	0.07	0.08	0.00	0.00	0.00	0.02	0.01	0.03	112.89
9/22/2021	0.00	0.00	0.00	0.08	0.07	0.08	0.00	0.00	0.00	0.02	0.01	0.03	112.89
9/23/2021	0.00	0.00	0.00	0.08	0.07	0.08	2.22	0.00	16.46	0.03	0.01	0.03	112.89
9/24/2021	0.00	0.00	0.00	0.08	0.07	0.08	0.00	0.00	0.00	0.03	0.01	0.03	112.89
9/25/2021	0.00	0.00	0.00	0.08	0.07	0.08	0.00	0.00	0.00	0.03	0.01	0.03	112.89
9/26/2021	0.00	0.00	0.00	0.08	0.07	0.08	0.00	0.00	0.00	0.03	0.03	0.03	112.89
9/27/2021	0.00	0.00	0.00	0.08	0.07	0.08	0.00	0.00	0.00	0.03	0.01	0.03	112.89
9/28/2021	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	0.03	0.00	0.03	112.89
9/29/2021	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	0.03	0.01	0.03	112.89
9/30/2021	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	0.03	0.01	0.03	112.89

Notes:

All measurements in pounds per square inch (psi)

NM = Not measured or otherwise not available

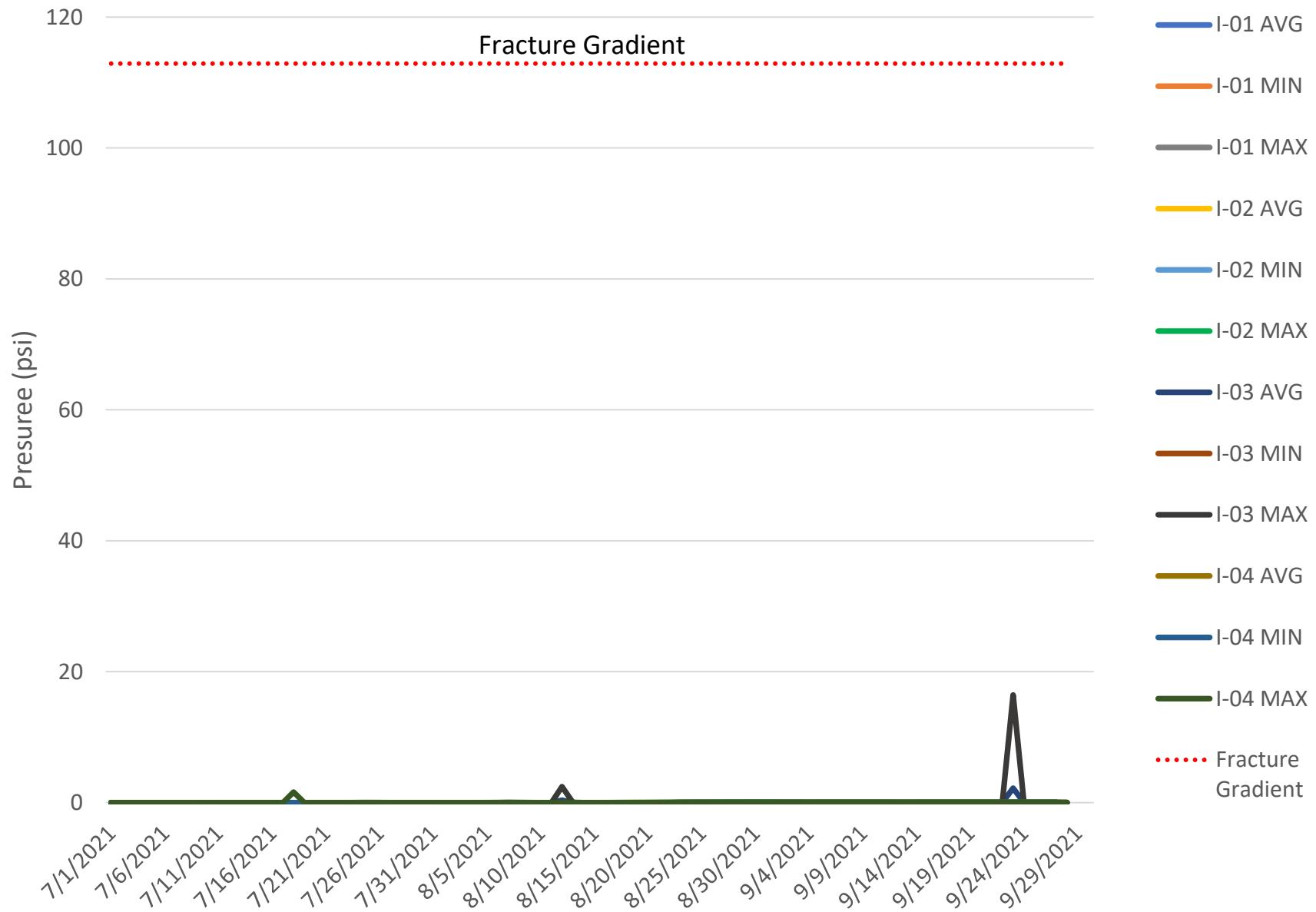
I-02 converted to recovery well starting 9/28/2021

Calculation of Pressure Allowed at the Wellhead from the Allowed Fracture Gradient

P-Wellhead = P-TOS - P-Col = [P-Frac x D-TOS] - [D-TOS / Conv] Where:

P-Fracture	= Pressure allowed at the top of the injection well screen (TOS)	=	0.65	psi/foot of depth
D-TOS	= Depth to top of injection well screens	=	520	feet
P-TOS	= Total pressure allowed at top of screen = P-Fracture x D-TOS	= 0.65 psi/foot x 520 feet	338	psi
Conv	= Feet of Water per psi	=	2.31	feet/psi
P-Col	= Pressure from weight of water column at TOS	= 520 feet / 2.31 feet/psi	225.11	psi
P-Wellhead	= Allowable pressure at the top of the wellhead = P-TOS - P-Col	= 338 psi - 225.11 psi	112.89	psi

Figure 1. Daily Wellhead Pressures - Injection Wells



Q3 2021 DAILY CASING ANNULUS PRESSURES - INJECTION WELLS

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FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 4. July 2021 Casing Annulus Pressure

Date	I-01			I-02			I-03			I-04			Fracture Gradient
	AVG	MIN	MAX										
7/1/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/2/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/3/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/4/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/5/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/6/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/7/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/8/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/9/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/10/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/11/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/12/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/13/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/14/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/15/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/16/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/17/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/18/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/19/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/20/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/21/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/22/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/23/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/24/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/25/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/26/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/27/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/28/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/29/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/30/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
7/31/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89

Notes:

All measurements in pounds per square inch (psi)

Q3 2021 DAILY CASING ANNULUS PRESSURES - INJECTION WELLS

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FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 5. August 2021 Casing Annulus Pressure

Date	I-01			I-02			I-03			I-04			Fracture Gradient
	Avg	Min	Max										
8/1/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/2/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/3/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/4/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/5/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/6/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/7/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/8/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/9/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/10/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/11/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/12/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/13/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/14/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/15/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/16/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/17/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/18/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/19/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/20/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/21/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/22/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/23/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/24/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/25/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/26/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/27/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/28/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/29/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/30/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
8/31/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89

Notes:

All measurements in pounds per square inch (psi)

Q3 2021 DAILY CASING ANNULUS PRESSURES - INJECTION WELLS

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FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 6. September 2021 Casing Annulus Pressure

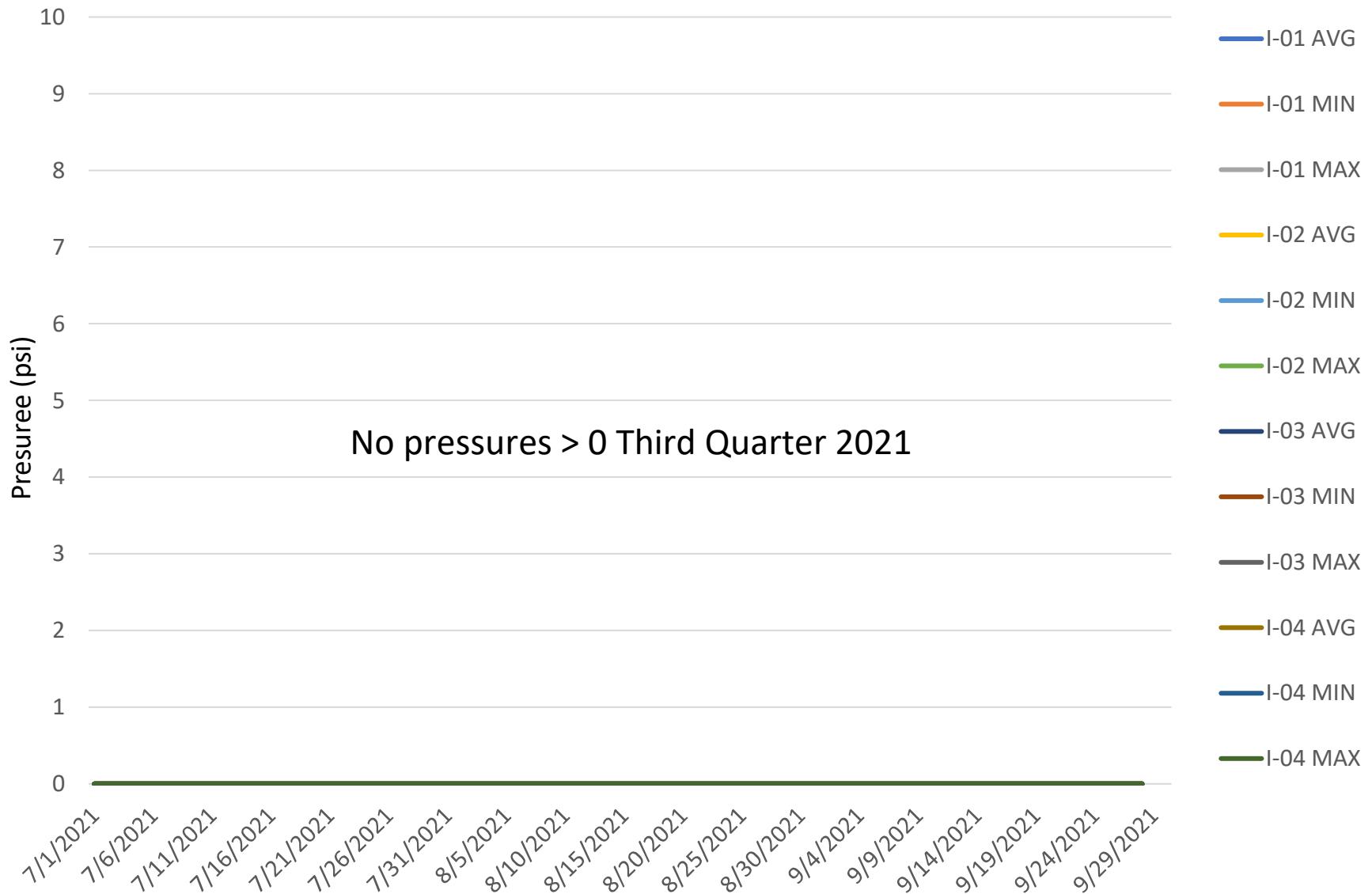
Date	I-01			I-02			I-03			I-04			Fracture Gradient
	Avg	Min	Max										
9/1/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
9/2/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
9/3/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
9/4/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
9/5/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
9/6/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
9/7/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
9/8/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
9/9/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
9/10/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
9/11/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
9/12/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
9/13/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
9/14/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
9/15/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
9/16/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
9/17/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
9/18/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
9/19/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
9/20/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
9/21/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
9/22/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
9/23/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
9/24/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
9/25/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
9/26/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
9/27/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
9/28/2021	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	0.00	0.00	0.00	112.89
9/29/2021	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	0.00	0.00	0.00	112.89
9/30/2021	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	0.00	0.00	0.00	112.89

Notes:

All measurements in pounds per square inch (psi)

I-02 converted to recovery well starting 9/28/2021

Figure 2. Daily Casing Annulus Pressures - Injection Wells



ATTACHMENT 12

Results for Monthly Treated Water Samples

Q3 2021

MONTHLY ISCR WELLFIELD WATER ANALYTICAL RESULTS

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 1. Treated ISCR Wellfield Water

Monitoring Parameters	Maximum Ambient Water Quality ⁽¹⁾	Analytical Results		
		7/19/2021	8/25/2021	9/15/2021
Metals				
Aluminum	0.08	< 2.0	< 2.0	< 2.0
Antimony	0.0005	< 0.20	< 0.20	< 0.20
Arsenic	0.0029	< 0.040	< 0.040	< 0.040
Barium	0.11	< 0.050	< 0.050	< 0.050
Beryllium	0.0005	< 0.0020	< 0.0020	< 0.0020
Cadmium	0.0014	< 0.0020	< 0.0020	< 0.0020
Chromium	0.01	< 0.030	< 0.030	< 0.030
Cobalt	0.0081	< 0.10	< 0.10	< 0.10
Copper	1.9	1.4	0.12	0.079
Iron	0.3	< 0.30	< 0.30	< 0.30
Lead	0.001	< 0.040	< 0.040	< 0.040
Magnesium	30	< 3.0	0.079	0.079
Manganese	0.12	0.039	< 0.020	< 0.020
Mercury	0.001	< 0.0010	< 0.0010	< 0.0010
Molybdenum	--	< 0.010	< 0.010	< 0.010
Nickel	0.015	< 0.050	< 0.050	< 0.050
Selenium	0.0039	< 0.040	< 0.040	< 0.040
Thallium	0.001	< 0.050	< 0.050	< 0.050
Uranium	--	0.01	< 0.00050	< 0.00050
Zinc	1.9	< 0.040	< 0.040	< 0.040
Inorganic Parameters				
Total Alkalinity	220	NA ⁽²⁾	NA ⁽²⁾	NA ⁽²⁾
Bicarbonate	220	NA ⁽²⁾	NA ⁽²⁾	NA ⁽²⁾
Carbonate	20	NA ⁽²⁾	NA ⁽²⁾	NA ⁽²⁾
Hydroxide	2	NA ⁽²⁾	NA ⁽²⁾	NA ⁽²⁾
pH (pH Units)	8.7	2.7	2.46	2.37
Temperature (°C)	32.4	31.4	34.5	38.8
Conductivity	1800	1235	1702	1670
Calcium	140	< 4.0	< 4.0	0.079
Chloride	340	100	130	< 1.0
Fluoride	0.89	0.49	0.86	< 0.50
Potassium	11	< 5.0	< 50	< 50
Sodium	180	< 5.0	< 5.0	< 5.0
TDS	1100	35	20	20
Nitrate (as N)	9.7	3.7	5.4	< 0.50
Nitrite (as N)	0.1	< 0.10	< 0.10	< 0.50
Sulfate	230	160	66	5.3
Organic Parameters				
Benzene	0.063	< 0.00050	< 0.00050	< 0.00050
Carbon Disulfide	--	< 0.002	NA ⁽³⁾	NA ⁽³⁾
Ethylbenzene	0.054	< 0.00050	< 0.00050	< 0.00050
Naphthalene	--	< 0.002	< 0.002	< 0.002
n-octane	--	< 0.00050	< 0.00050	< 0.00050
Toluene	0.057	0.00077	< 0.0005	< 0.0005
Total Xylene	0.13	< 0.0015	< 0.00050	< 0.0015
Total Petroleum Hydrocarbons - Diesel	0.17	< 0.0001	< 0.0001	< 0.0001
Radionuclide Parameters				
Gross Alpha (pCi/L)	2.8	< 2.2	< 0.5	< 2.3
Uranium Isotopes (total) (pCi/L)	30.2	2.1 ± 0.5	0.7 ± 0.3	< 0.4
Adjusted Gross Alpha (pCi/L)	15.4	< 1.0	< 1.0	< 2.3
Gross Beta (pCi/L)	--	< 2.2	< 2.4	< 2.4
Radium Isotopes 226+228 (pCi/L)	6.2	< 0.7	< 0.6	< 0.6
Radon (pCi/L)	--	1412.0 ± 142.6	1732.3 ± 175.7	973.7 ± 98.6

Notes:

(1) Maximum ambient water quality at the site pre-operation.

(2) Alkalinity analysis was not reported due to matrix interference. Sample pH was less than 4.5.

(3) No analysis for carbon disulfide in August and September

All results in milligrams per liter (mg/L) unless otherwise noted.

Non-detects are reported to the laboratory reporting limit

Radionuclide data presented as result ± uncertainty

ISCR = in-situ copper recovery

pCi/L = picocuries per liter

ATTACHMENT 13

Migratory Bird Landings

TABLE 1
Q3 2021 OBSERVED MIGRATORY BIRD LANDINGS
FLORENCE COPPER INC.
FLORENCE, ARIZONA

Date	Migratory Bird Species	Comments:	Fatality (Y or N)
8/3/2021	Plovers	27 plovers flew off after a few hours in the BHP Pond	N
9/27/2021	Plovers	5 plovers stopped in for a short time at the BHP Pond	N

Notes:

Florence Copper personnel conduct daily inspections of the Process Solution Impoundment and BHP Pond.